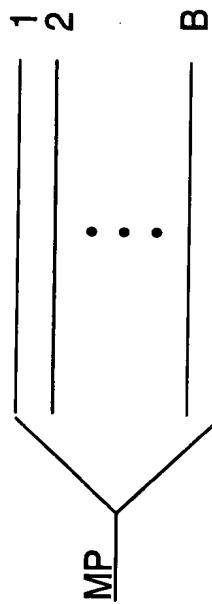
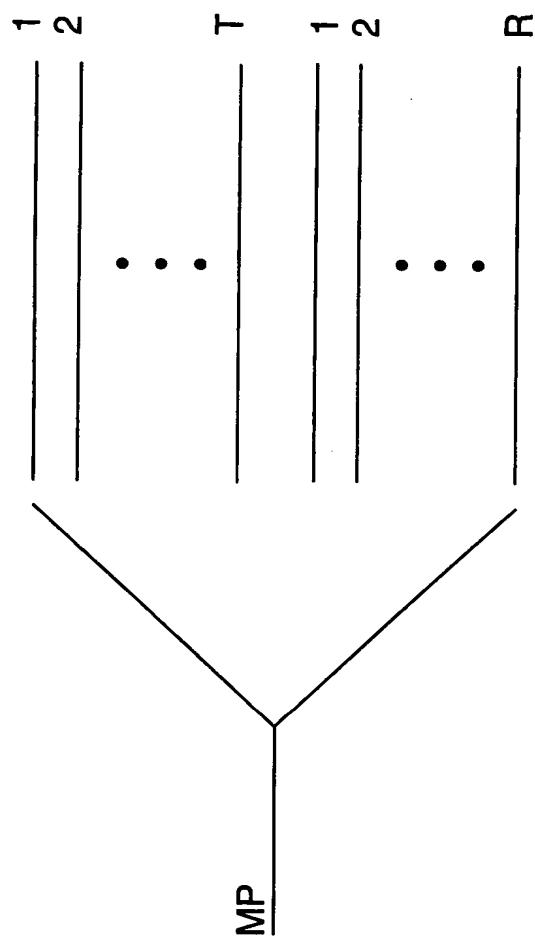


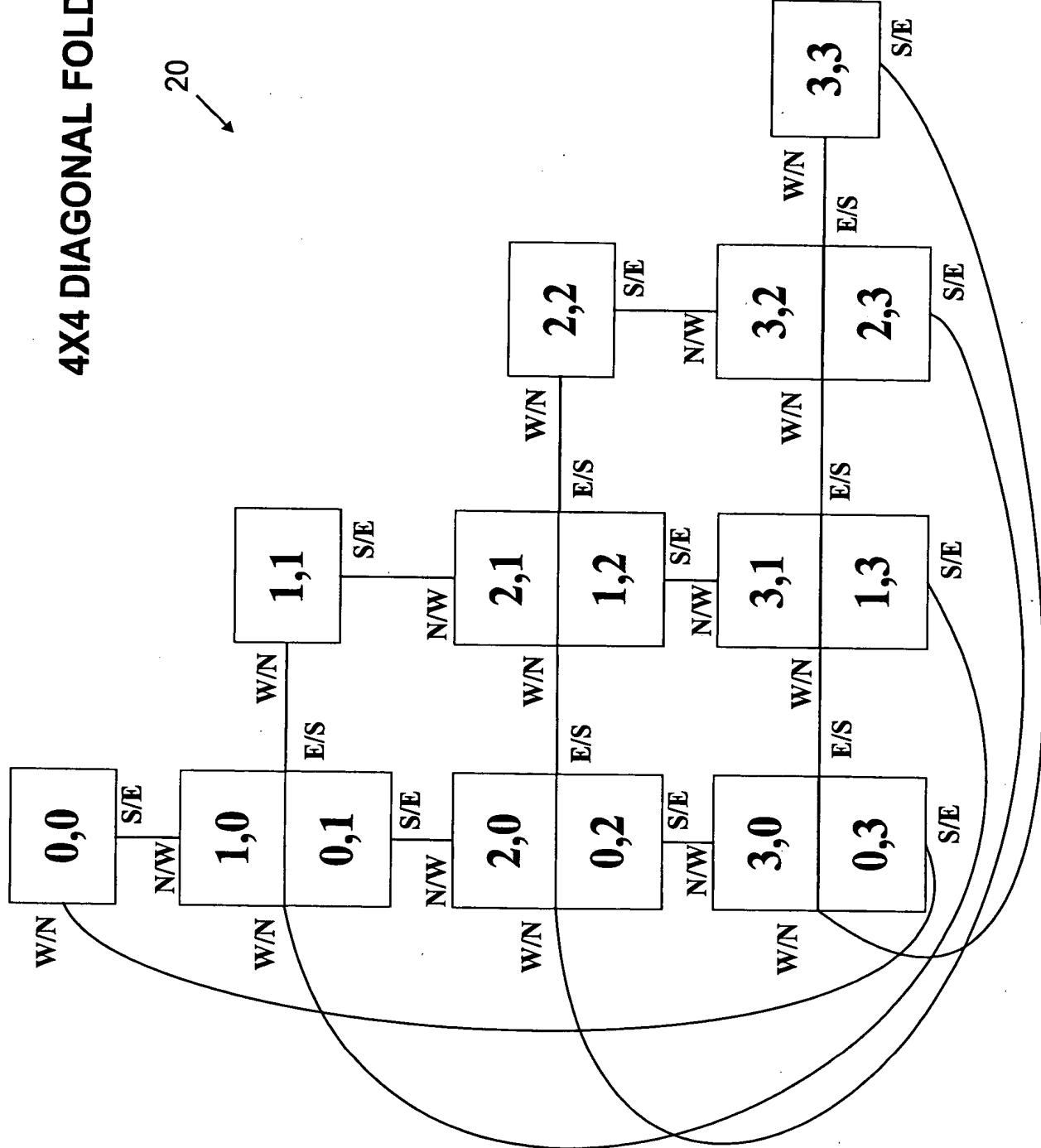
**FIG. 1A  
(PRIOR  
ART)**



**FIG. 1C  
(PRIOR ART)**



**FIG. 1B  
(PRIOR ART)**

**4X4 DIAGONAL FOLDED MESH****FIG. 2  
(PRIOR ART)**

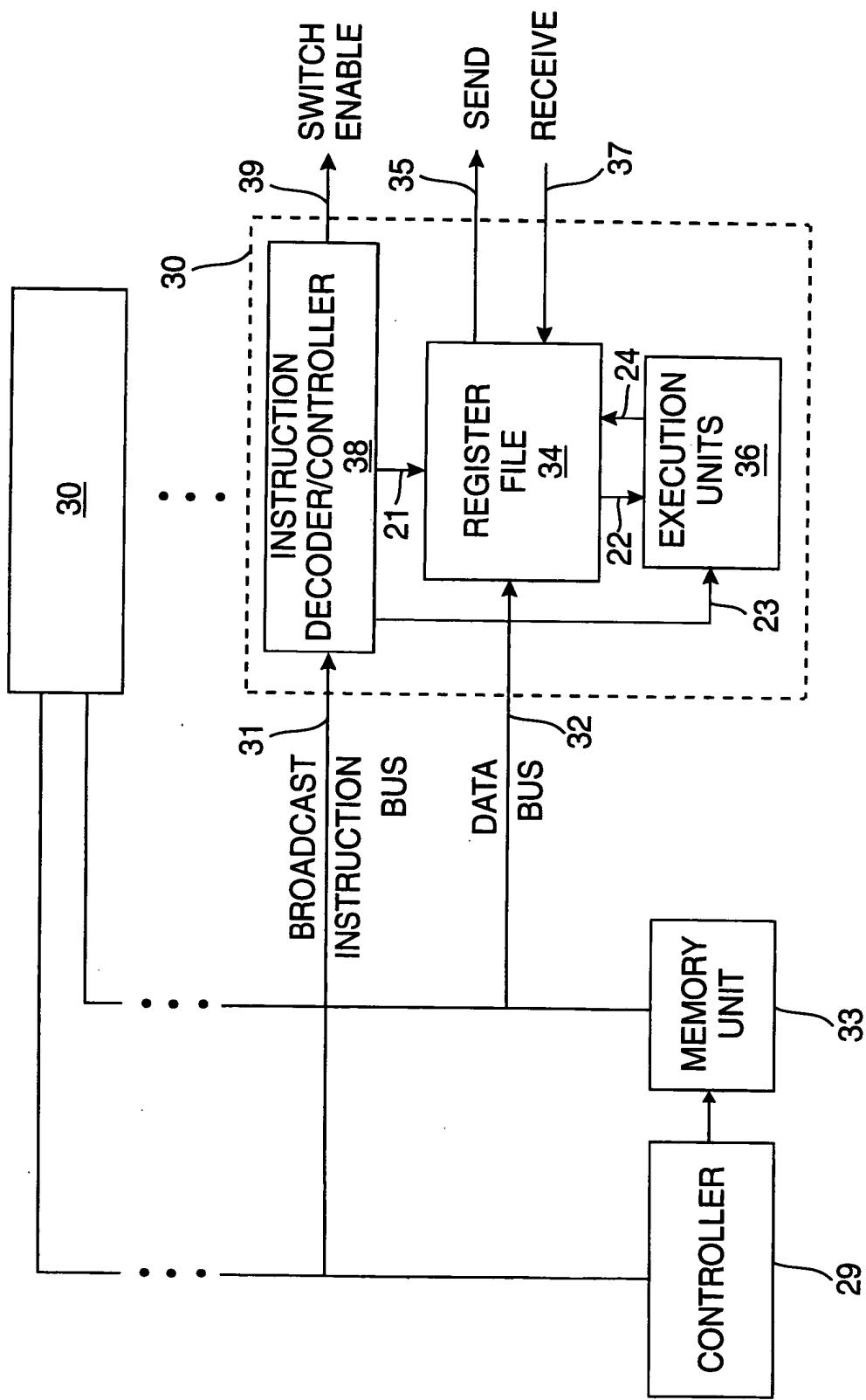


FIG. 3A

**FIG. 3B**

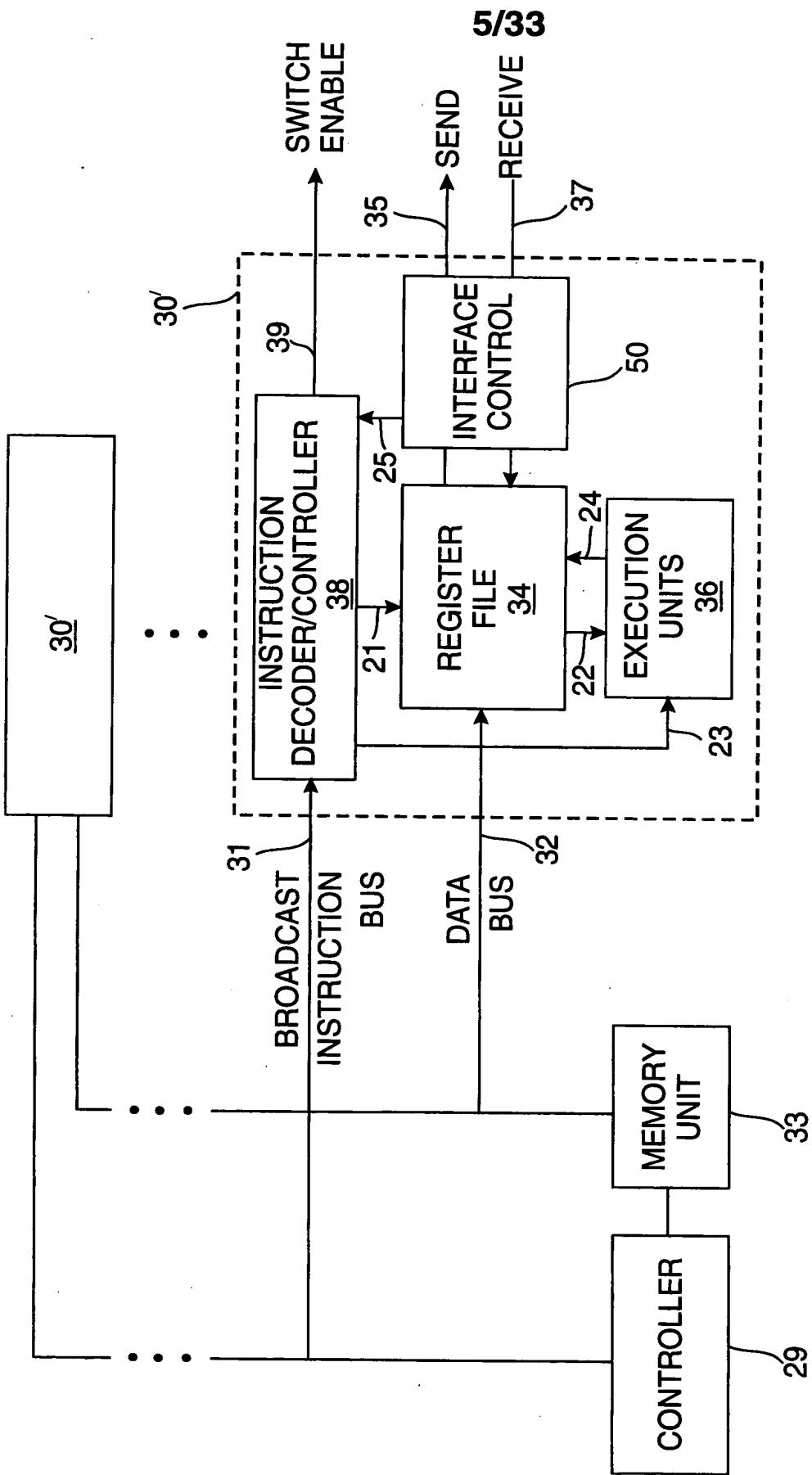
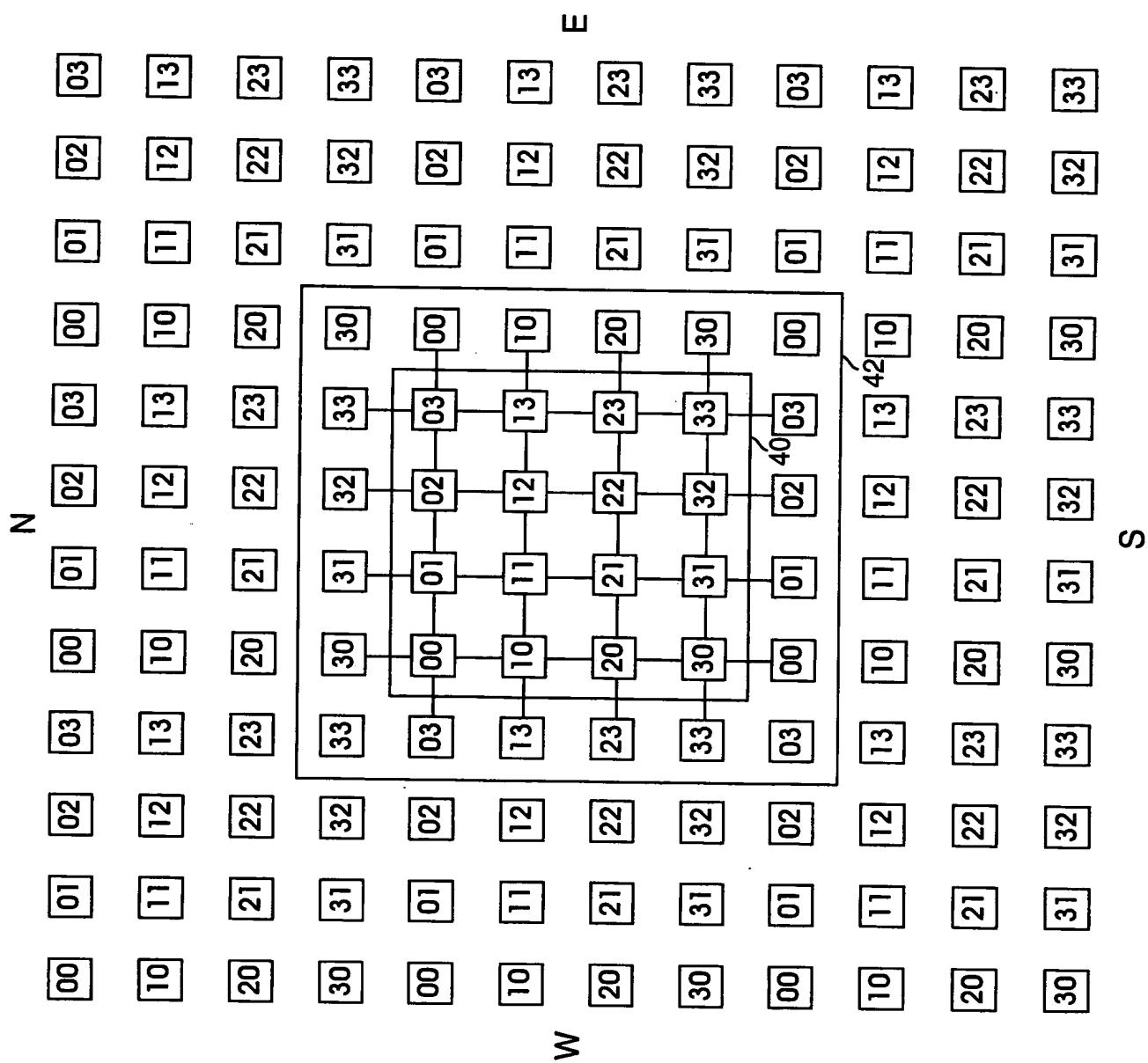
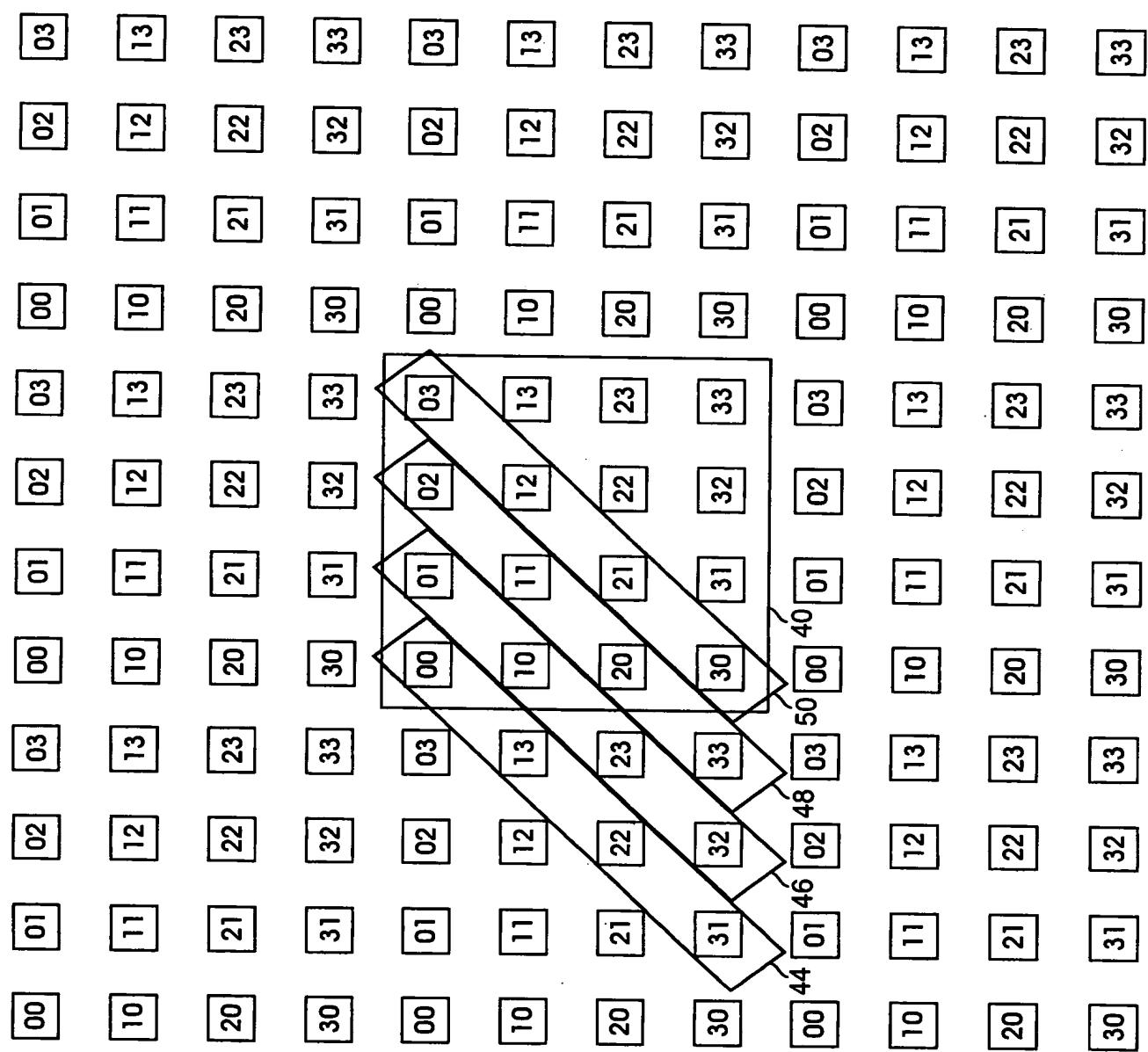


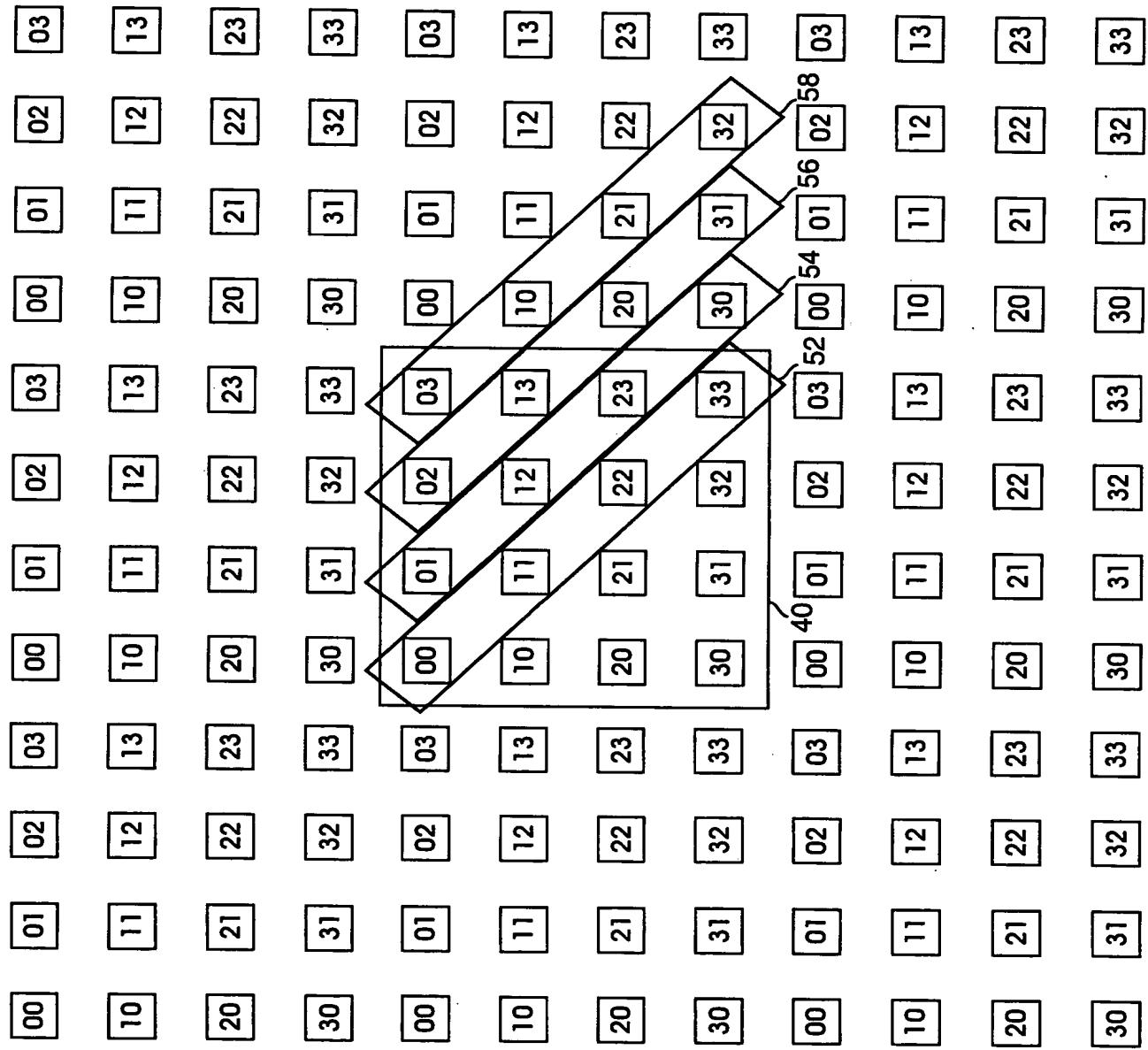
FIG. 4



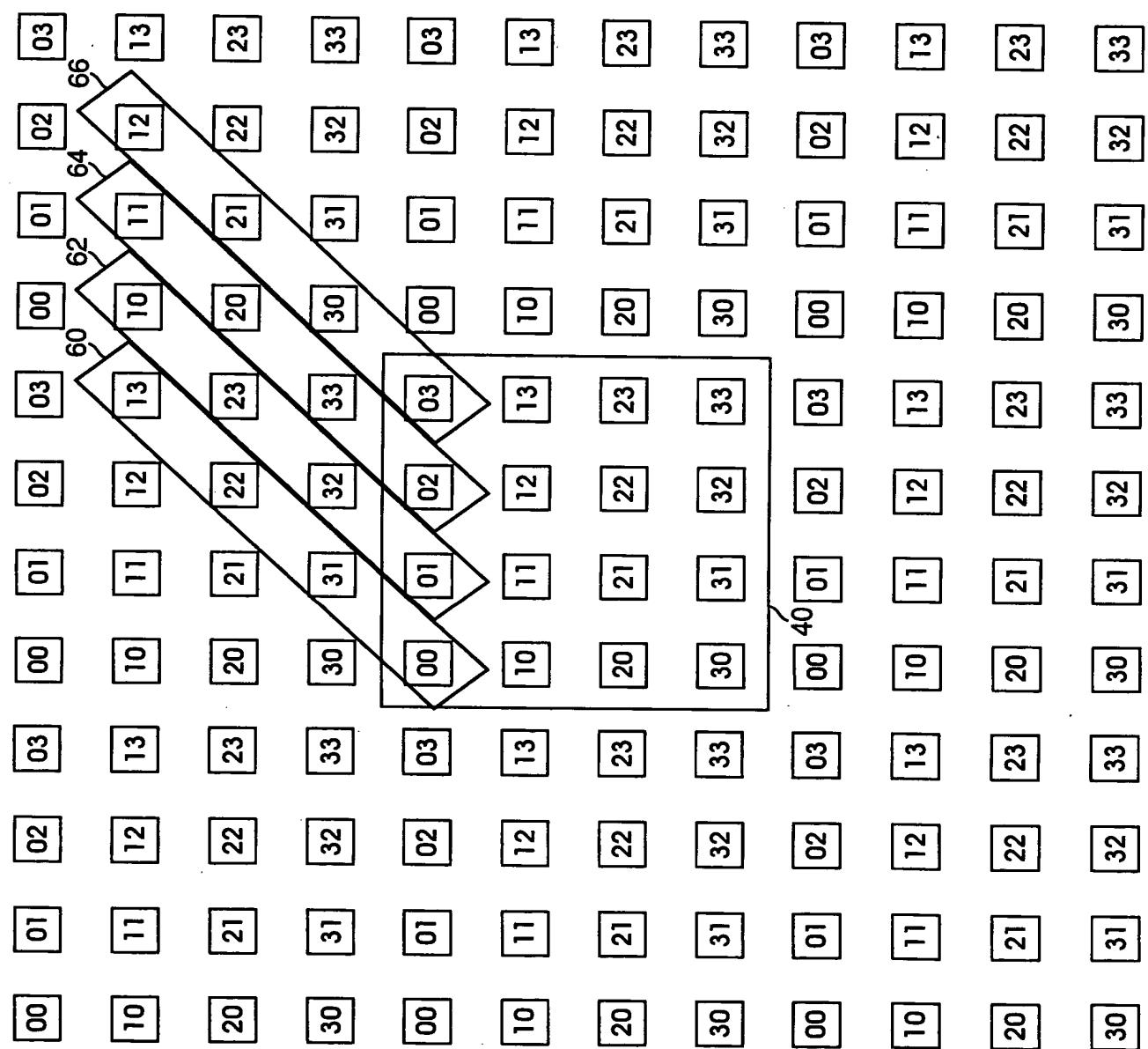
**FIG. 5A**



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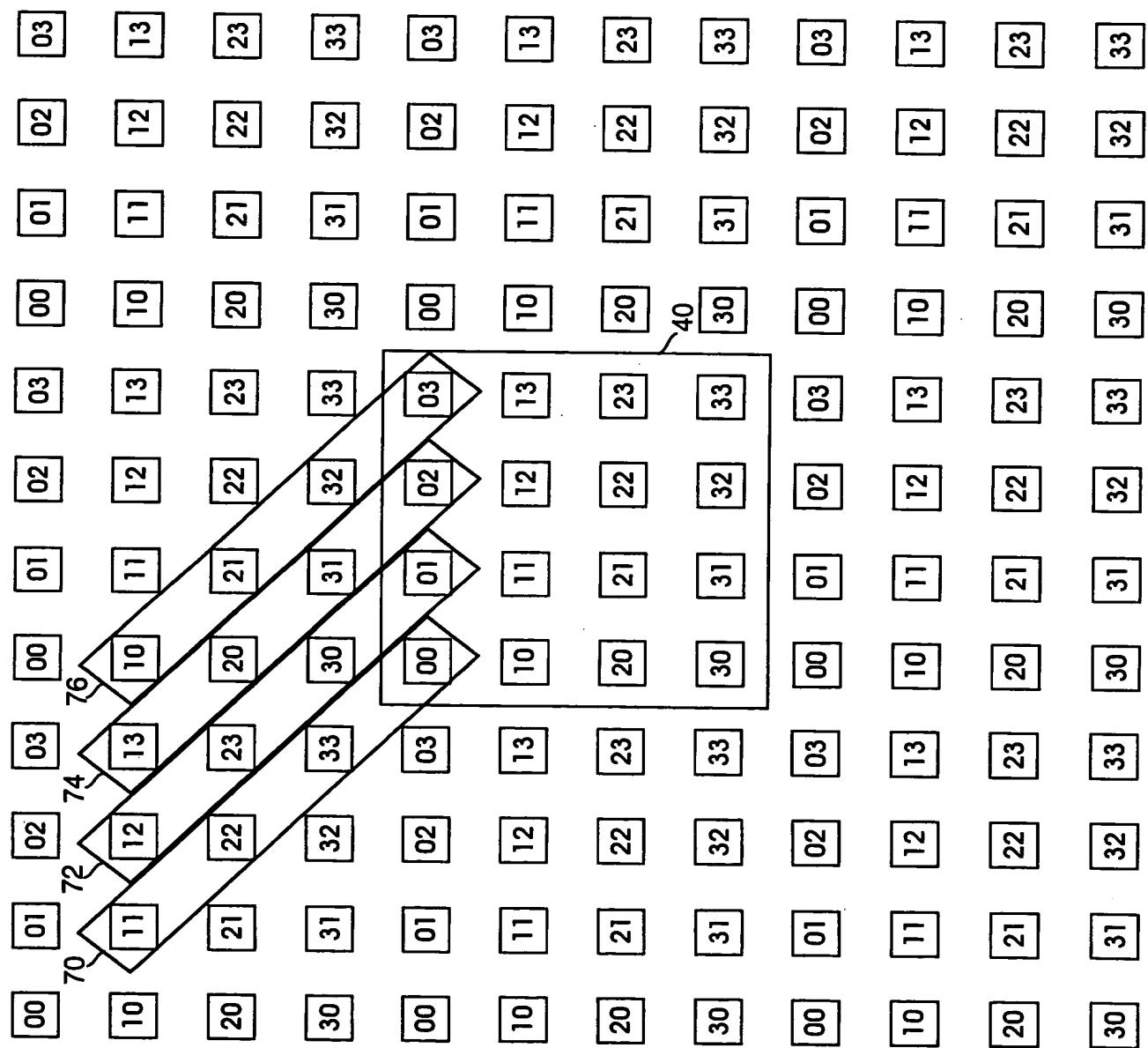


**FIG. 5B**

**FIG. 5C**

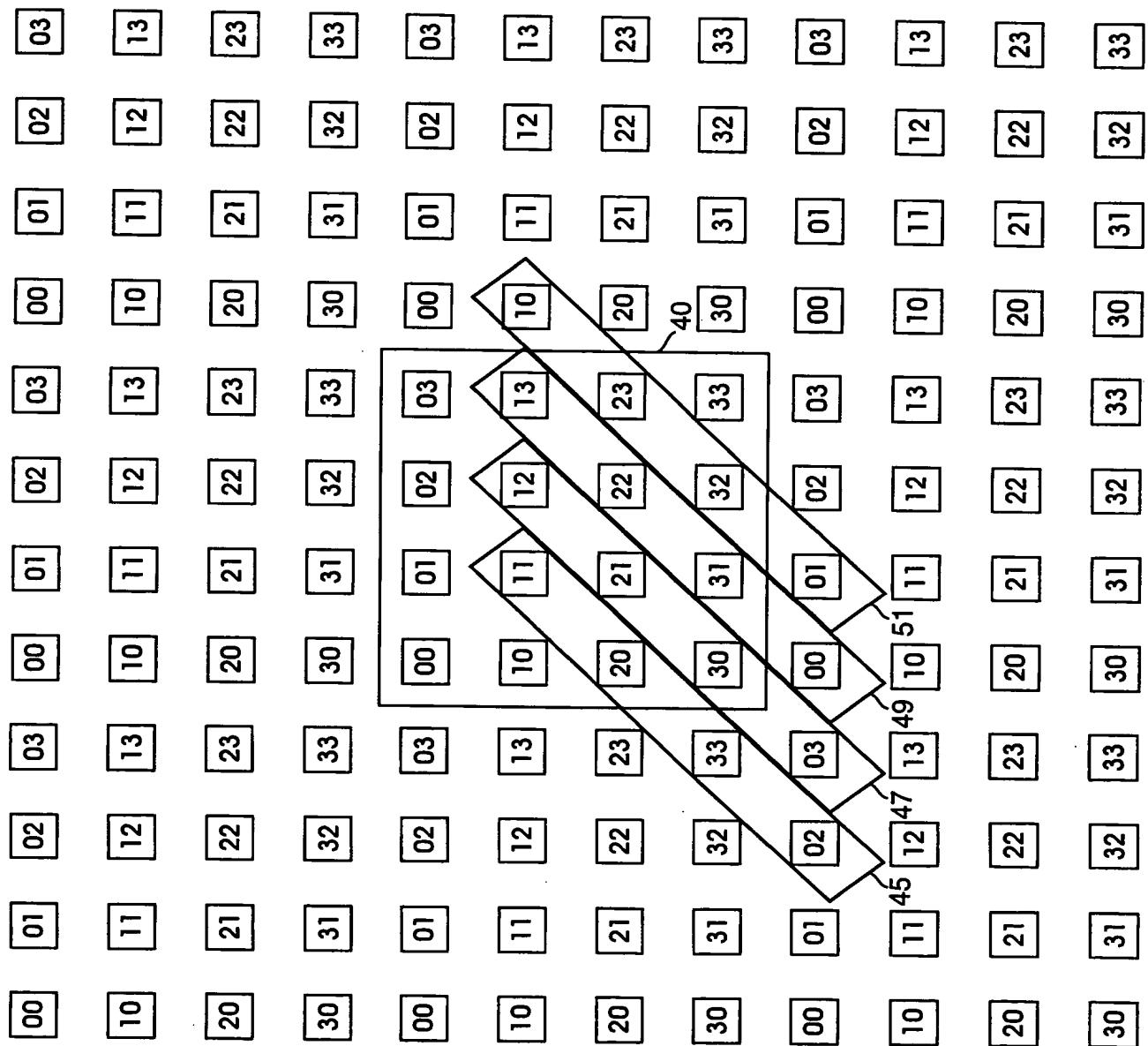
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FIG. 5D



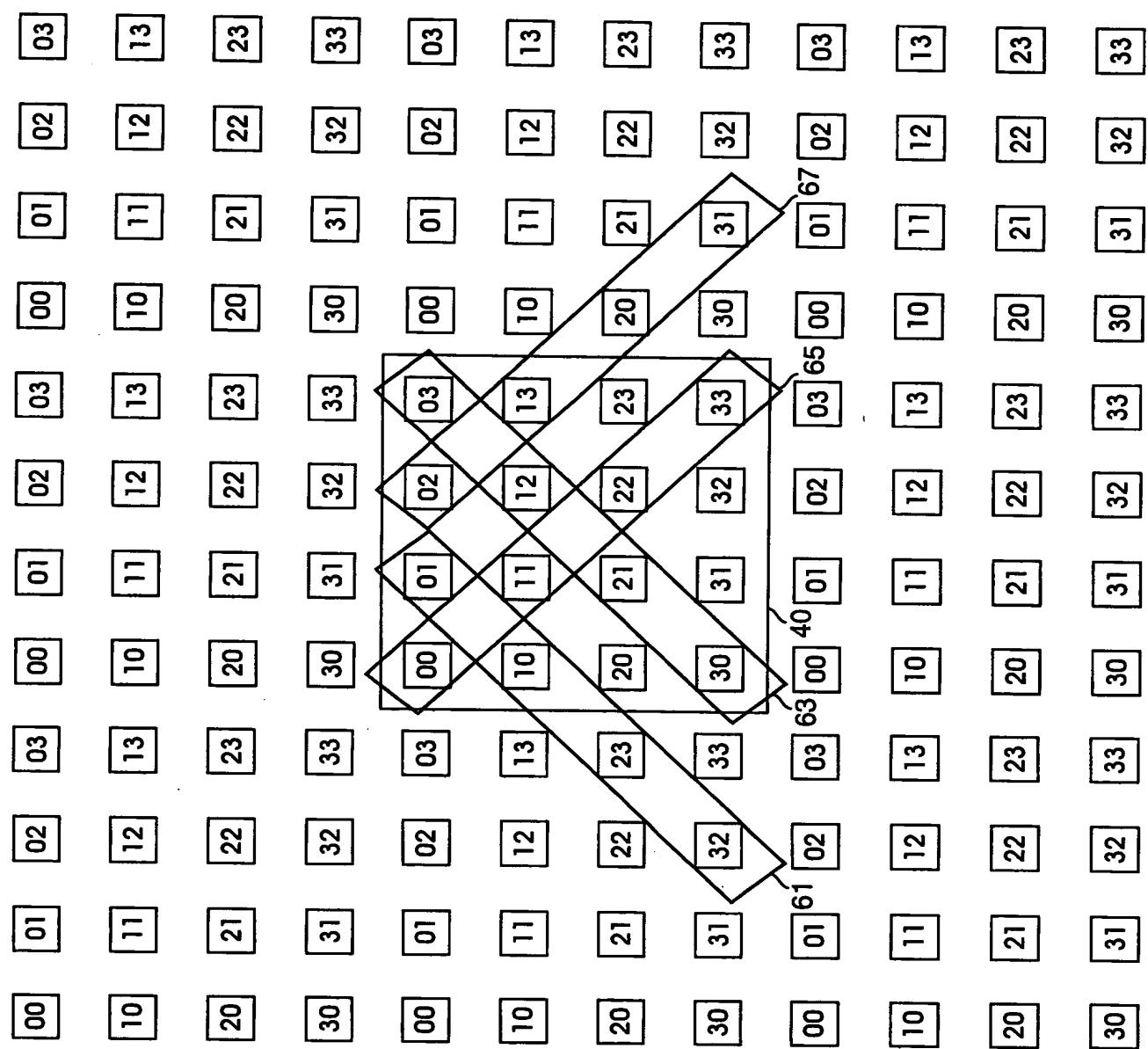
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**FIG. 5E**



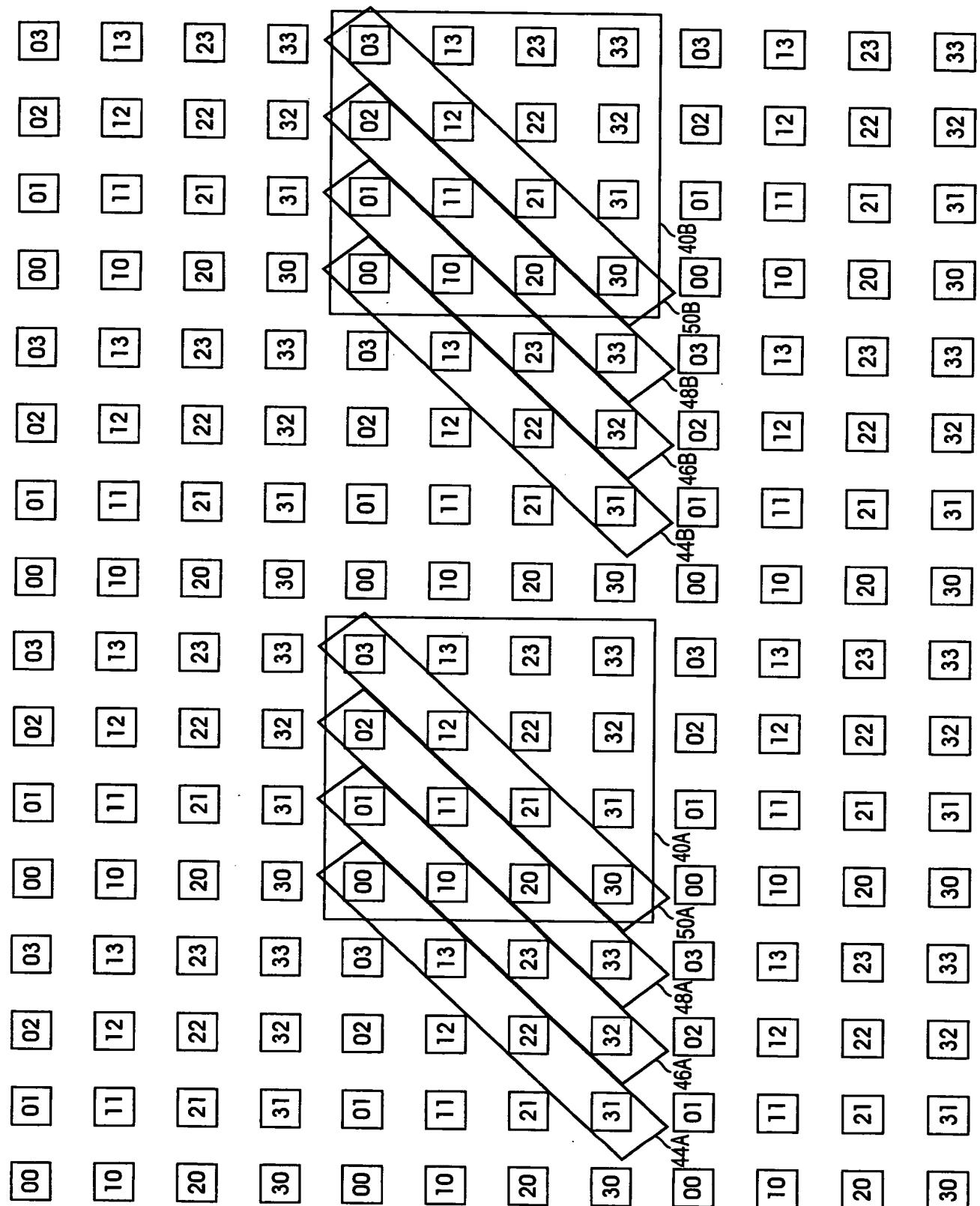
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FIG. 5F



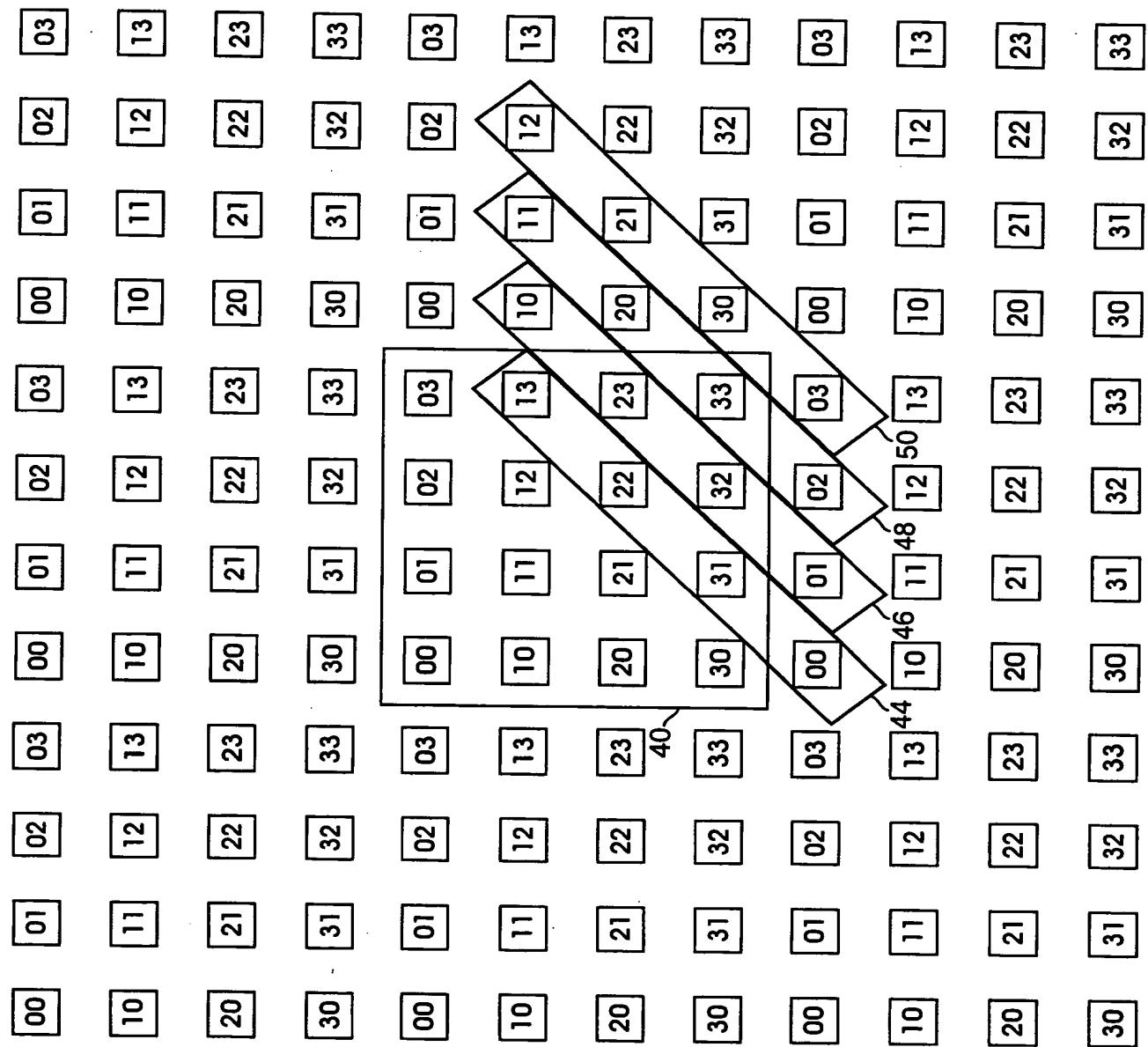
**FIG. 5G**

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**FIG. 6**



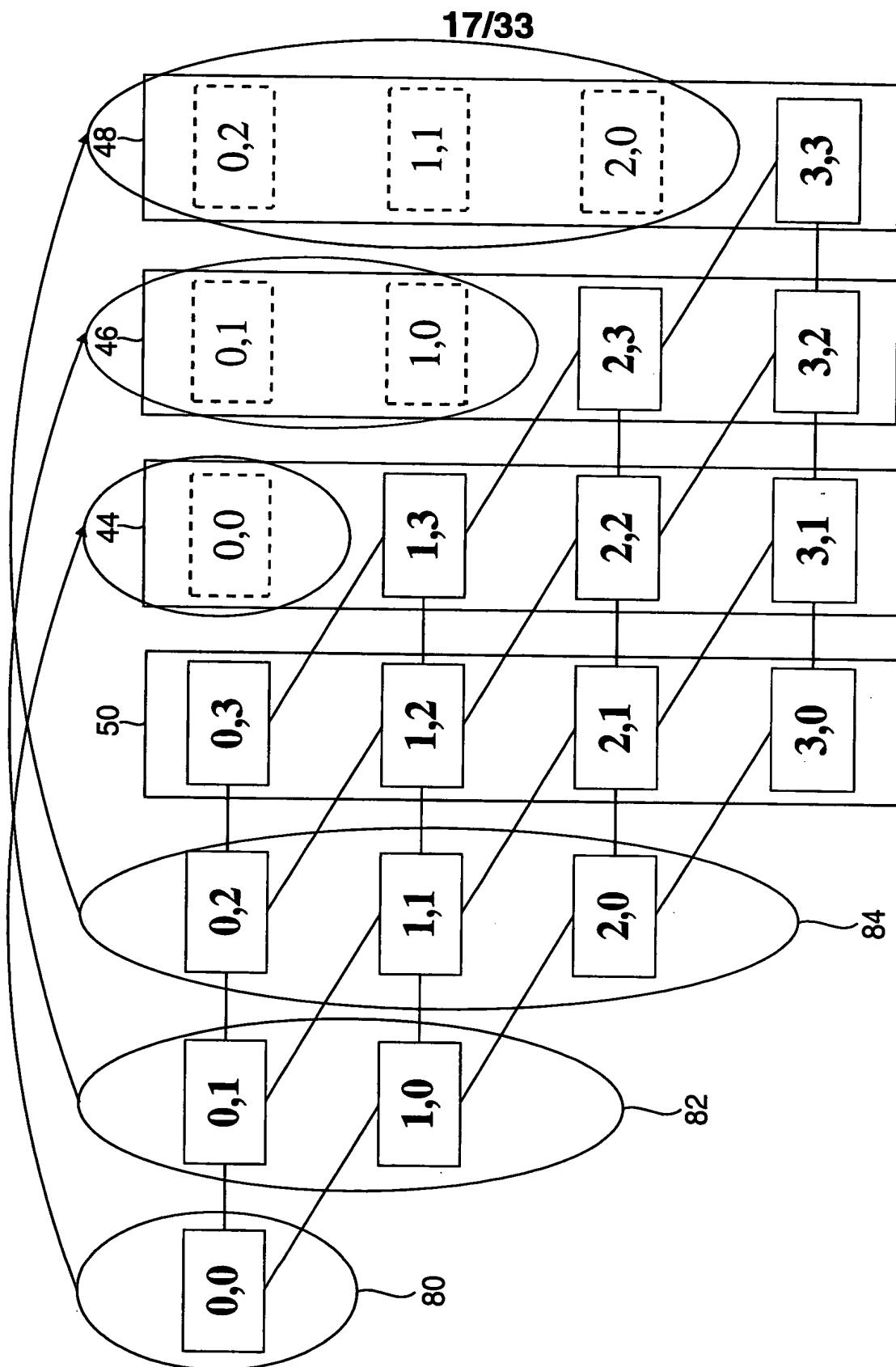
00	01	02	00	01	02	00	01	02
10	11	12	10	11	12	10	11	12
20	21	22	20	21	22	20	21	22
00	01	02	00	01	02	00	01	02
10	11	12	10	11	12	10	11	12
20	21	22	20	21	22	20	21	22
00	01	02	00	01	02	00	01	02
10	11	12	10	11	12	10	11	12
20	21	22	20	21	22	20	21	22

**FIG. 7**

00	01	02	03	04	00	01	02	03	04	00	01	02	03	04
10	11	12	13	14	10	11	12	13	14	10	11	12	13	14
20	21	22	23	24	20	21	22	23	24	20	21	22	23	24
00	01	02	03	04	00	01	02	03	04	00	01	02	03	04
10	11	12	13	14	10	11	12	13	14	10	11	12	13	14
20	21	22	23	24	20	21	22	23	24	20	21	22	23	24
00	01	02	03	04	00	01	02	03	04	00	01	02	03	04
10	11	12	13	14	10	11	12	13	14	10	11	12	13	14
20	21	22	23	24	20	21	22	23	24	20	21	22	23	24
00	01	02	03	04	00	01	02	03	04	00	01	02	03	04
10	11	12	13	14	10	11	12	13	14	10	11	12	13	14
20	21	22	23	24	20	21	22	23	24	20	21	22	23	24

**FIG. 8**

**FIG. 9**



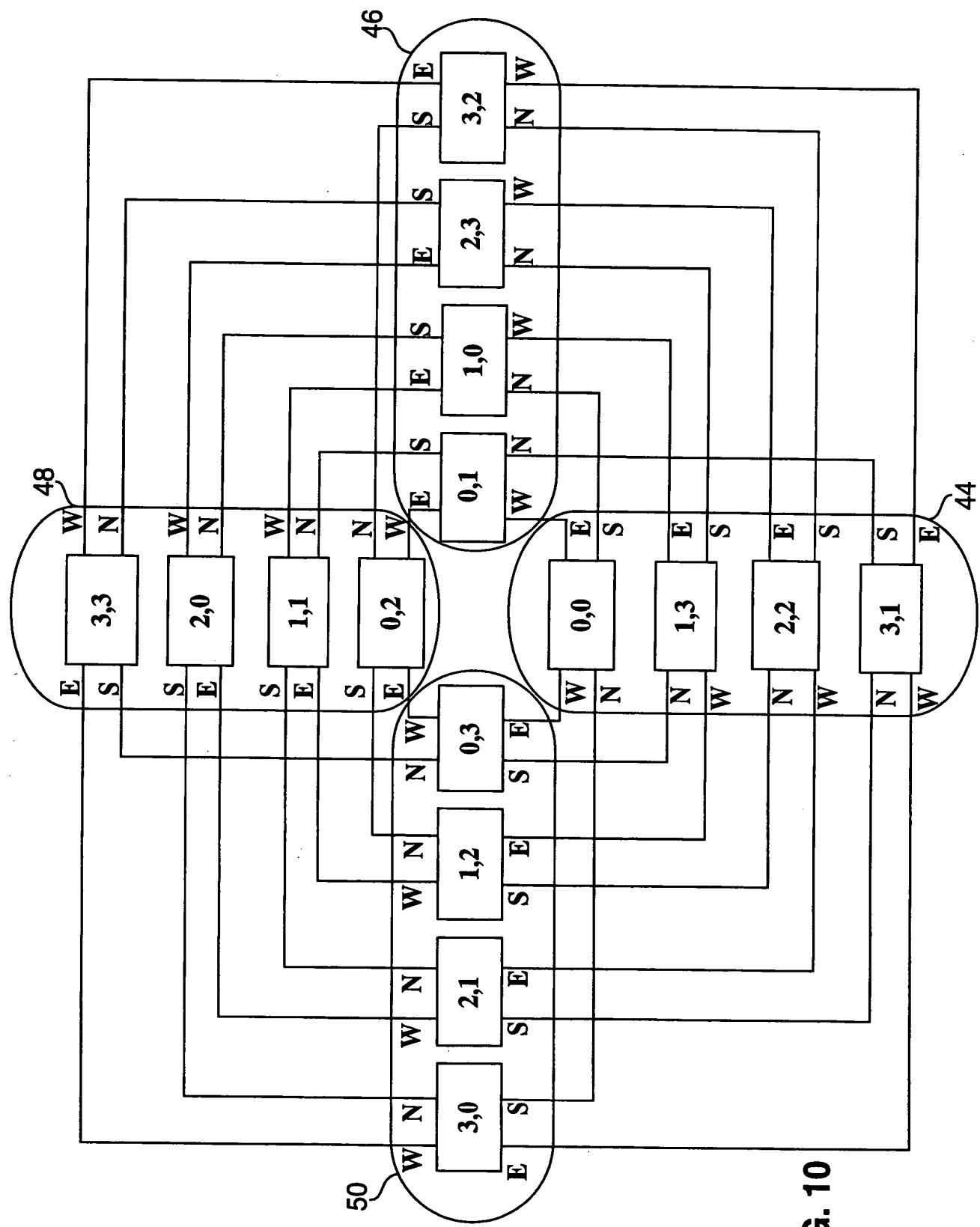
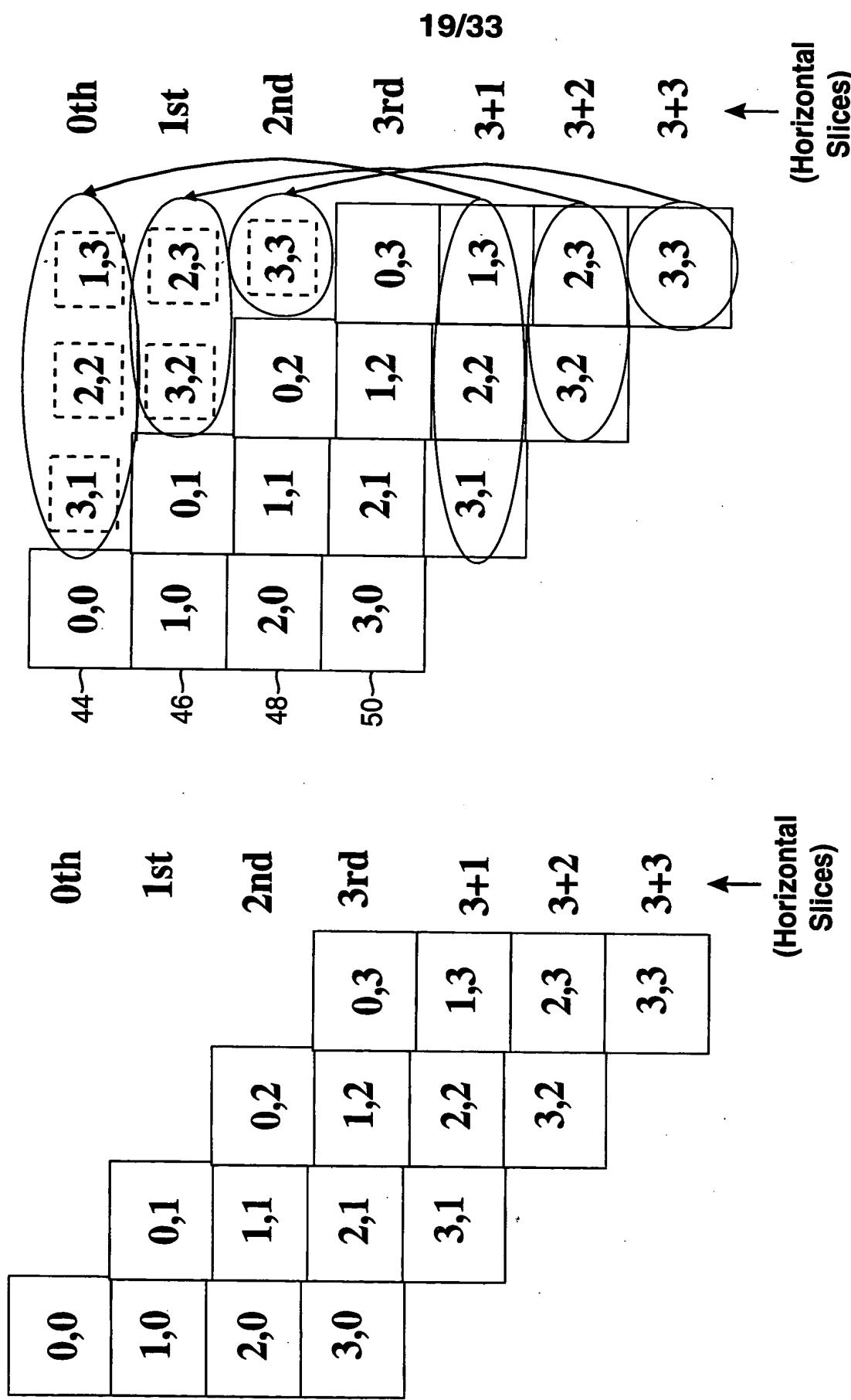


FIG. 10



**FIG.11A**

4x4 Rhombus

**FIG.11B**

4x4 Rhombus

(Horizontal Slices)

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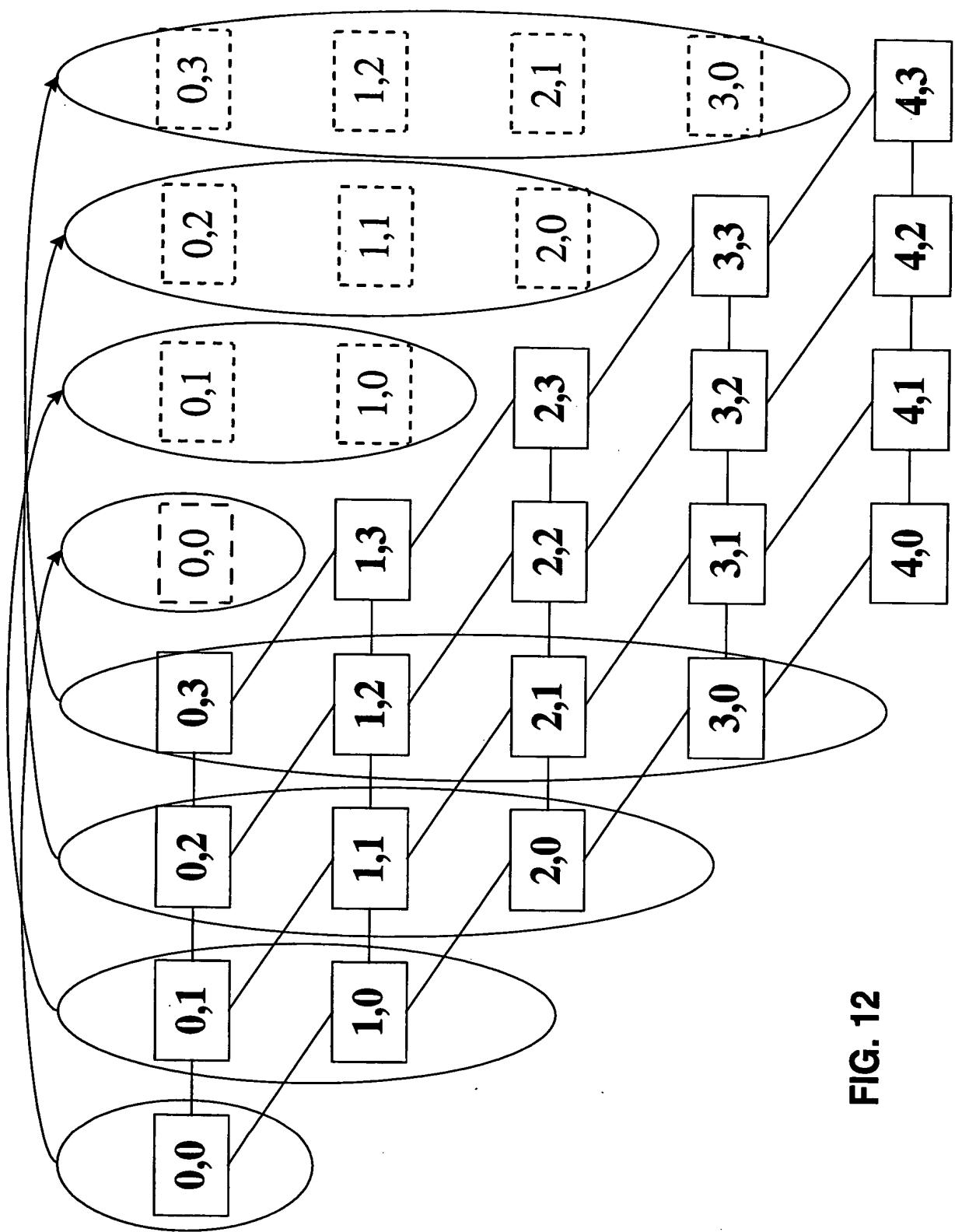


FIG. 12

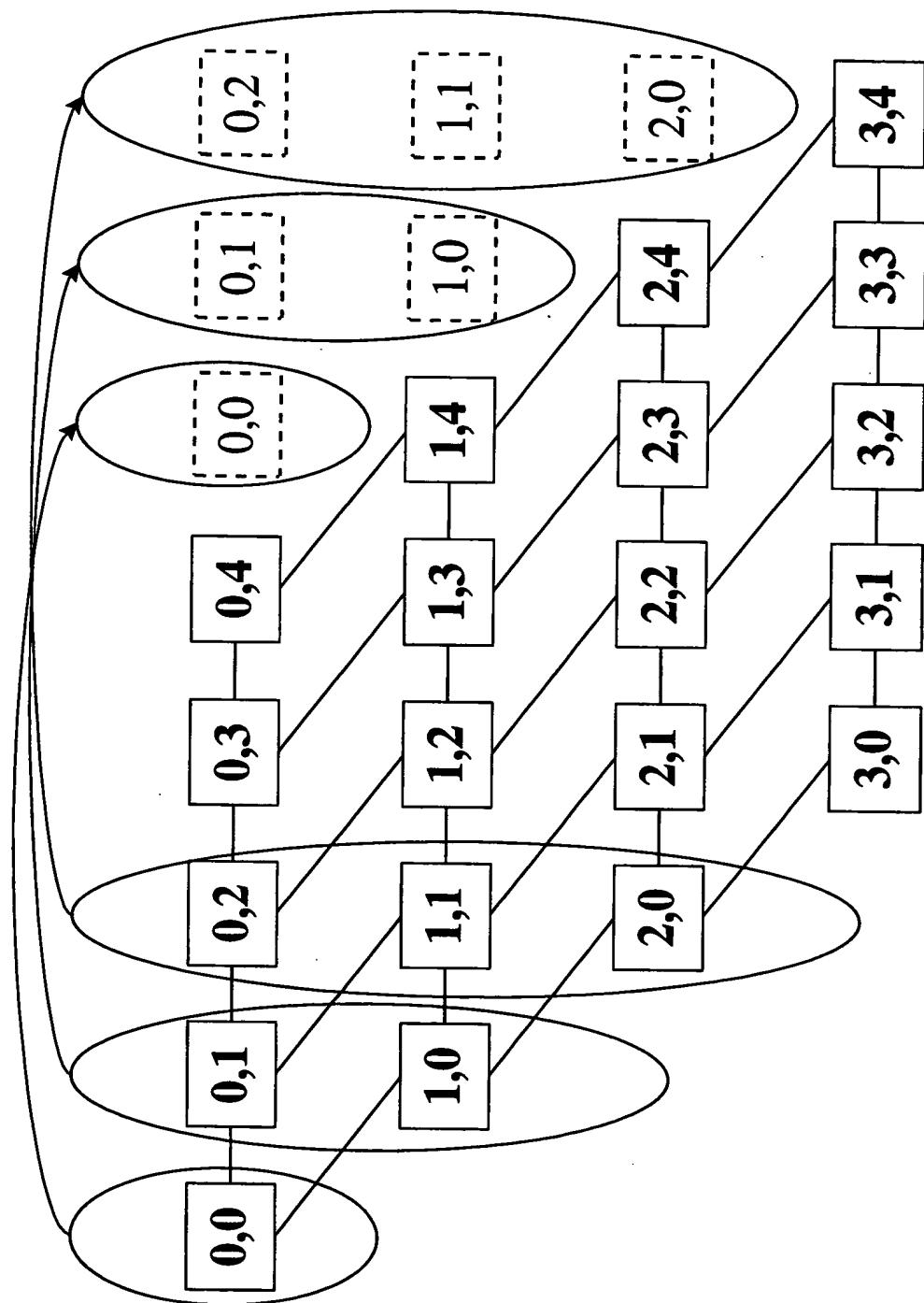


FIG. 13

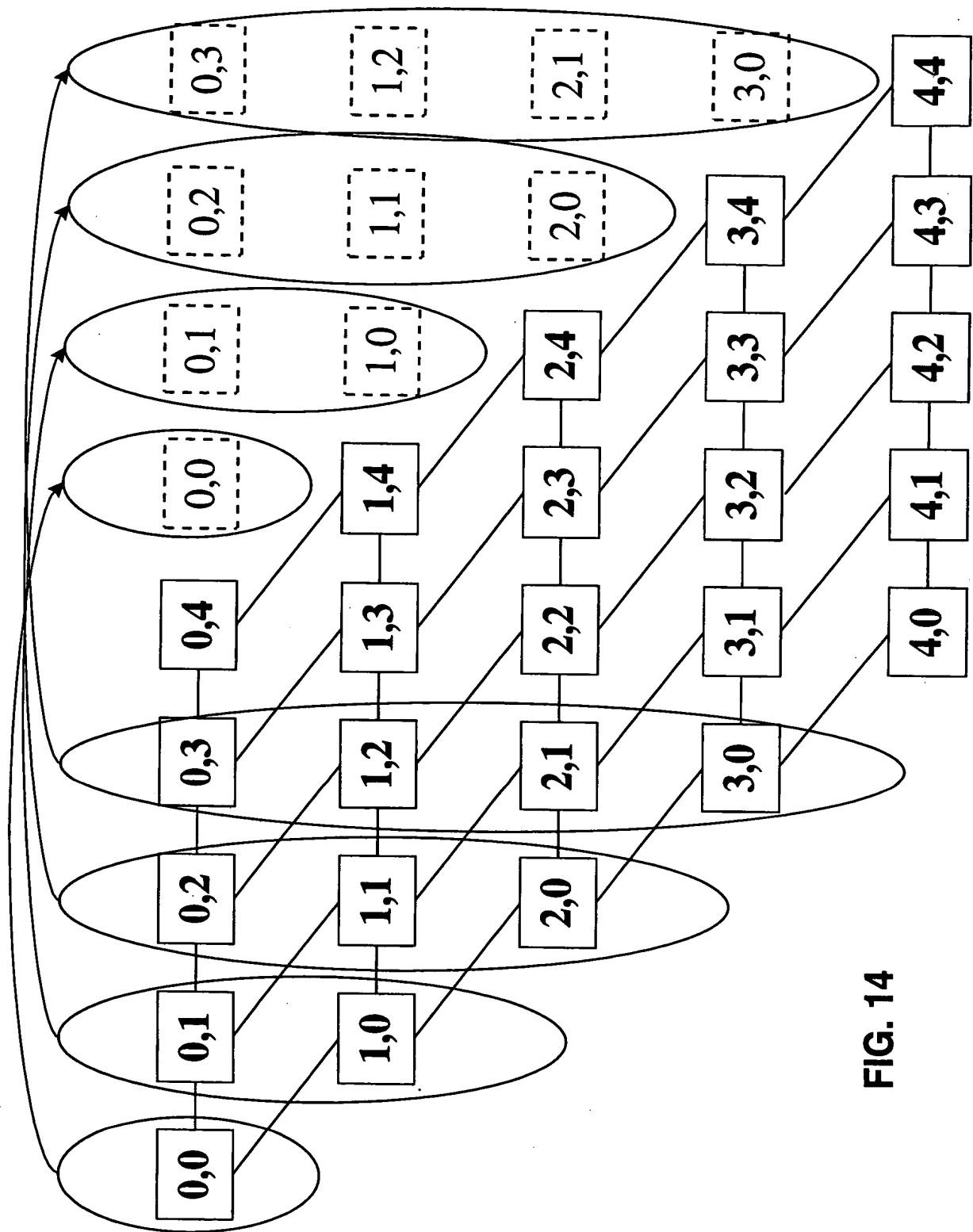
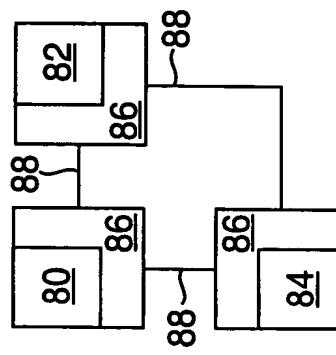
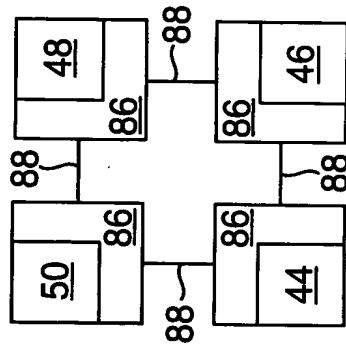


FIG. 14

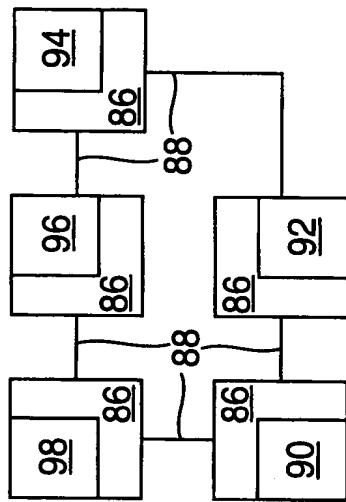
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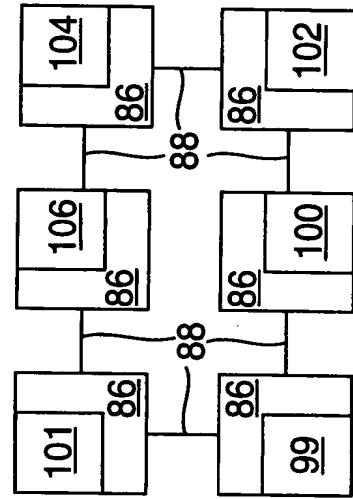
**FIG. 15A**



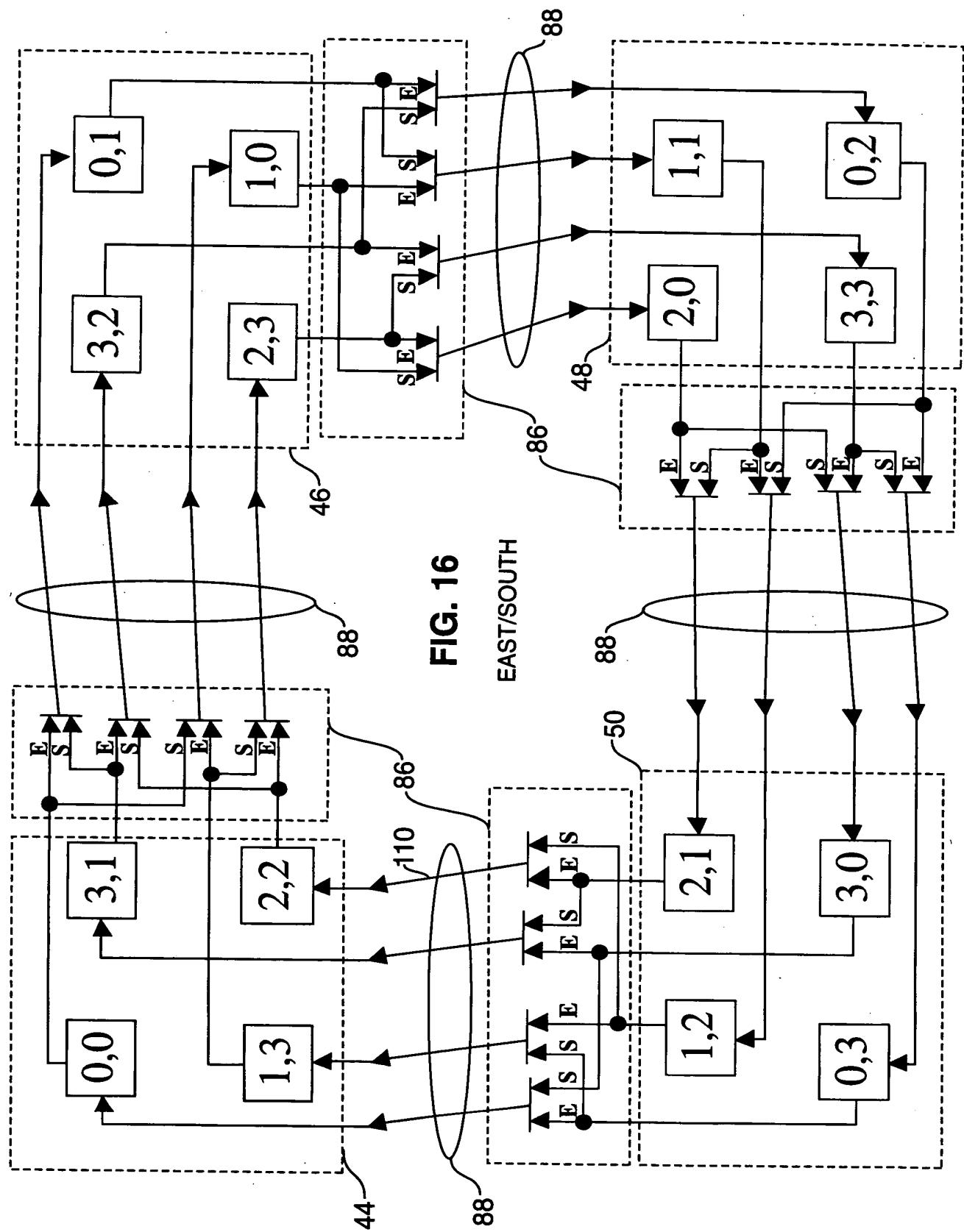
**FIG. 15B**

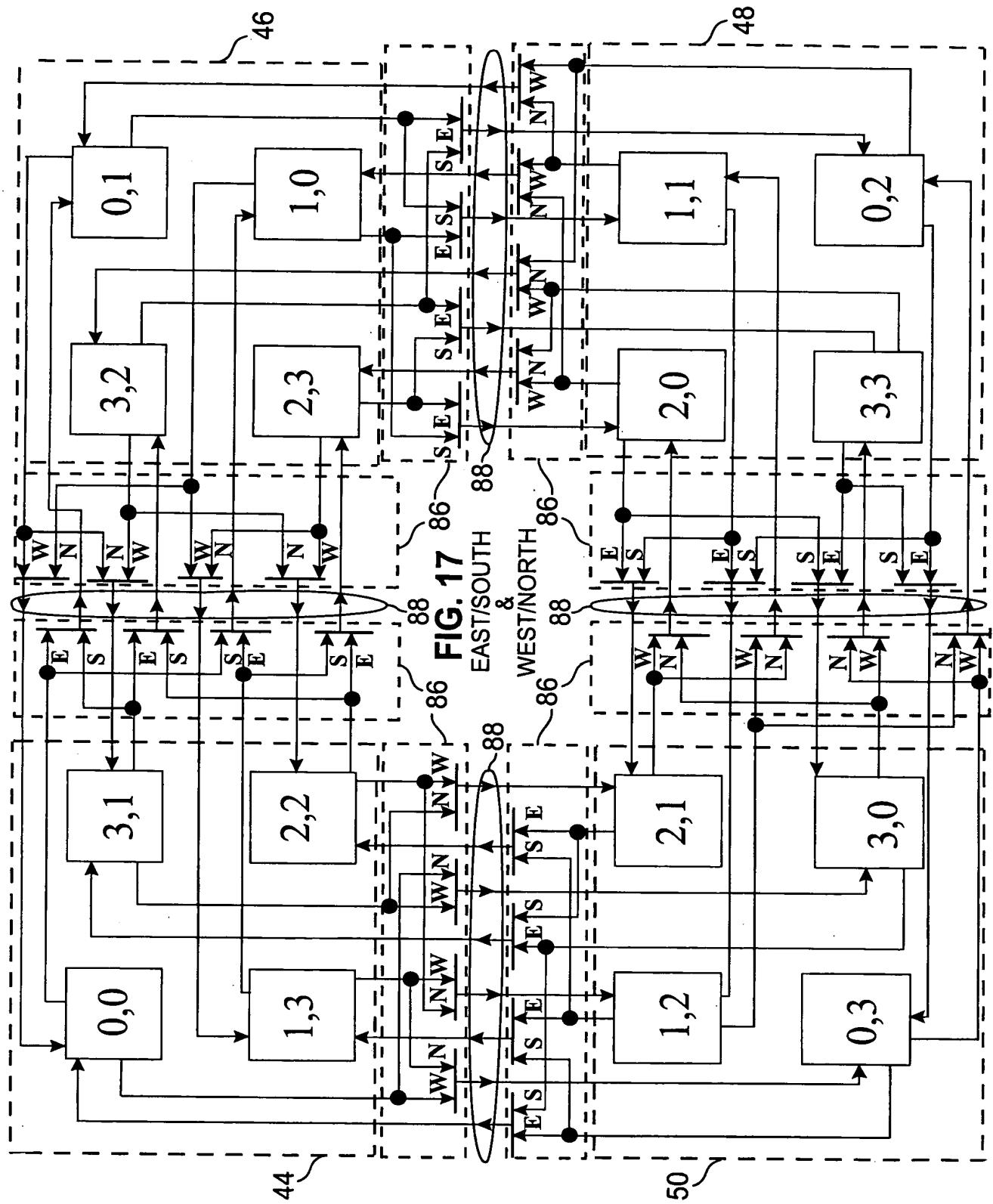


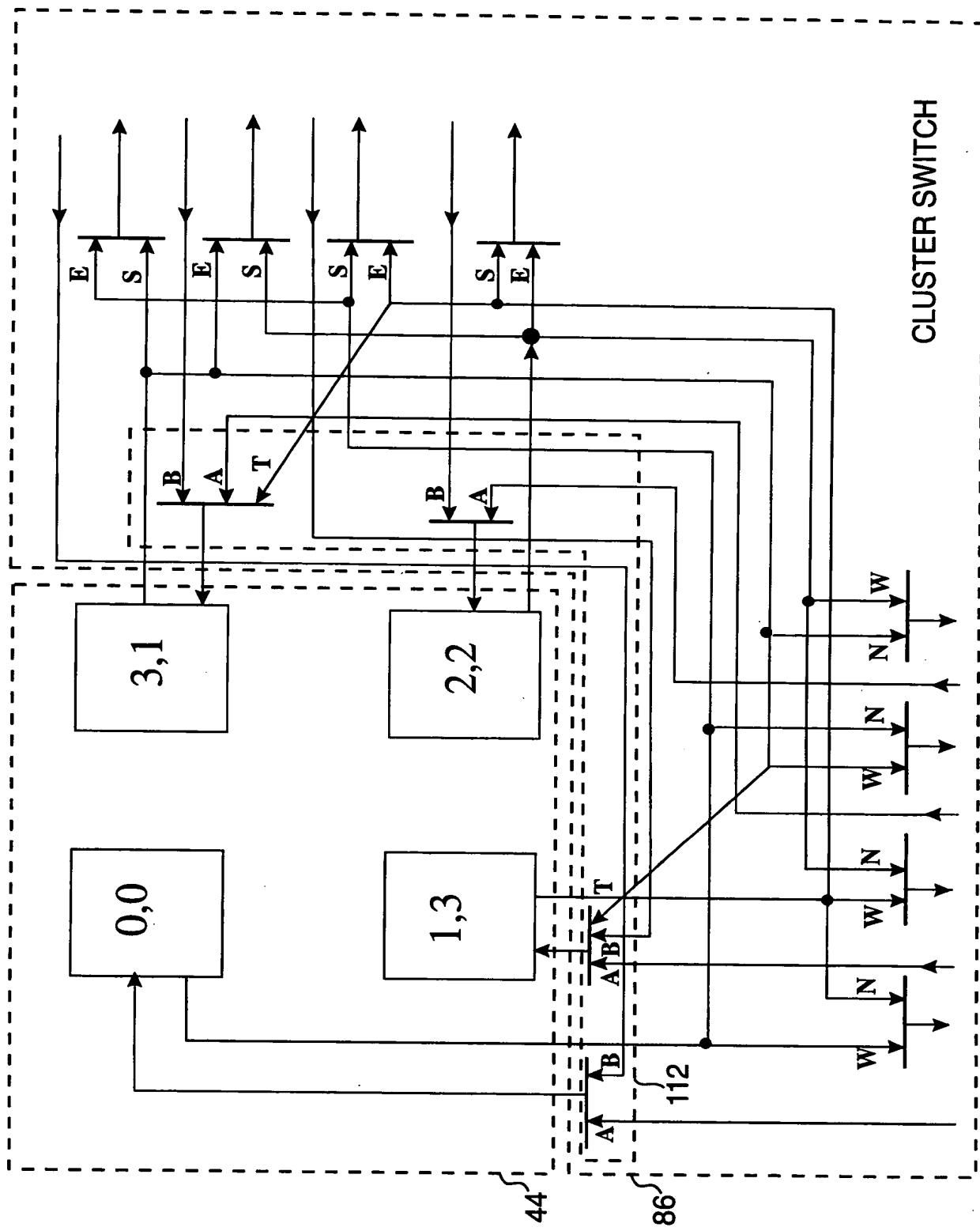
**FIG. 15C**



**FIG. 15D**





**FIG. 18**

$w_{0,0}$     $w_{0,1}$     $w_{0,2}$   
 $w_{1,0}$     $w_{1,1}$     $w_{1,2}$   
 $w_{2,0}$     $w_{2,1}$     $w_{2,2}$

CONVOLUTION WINDOW

FIG. 19A

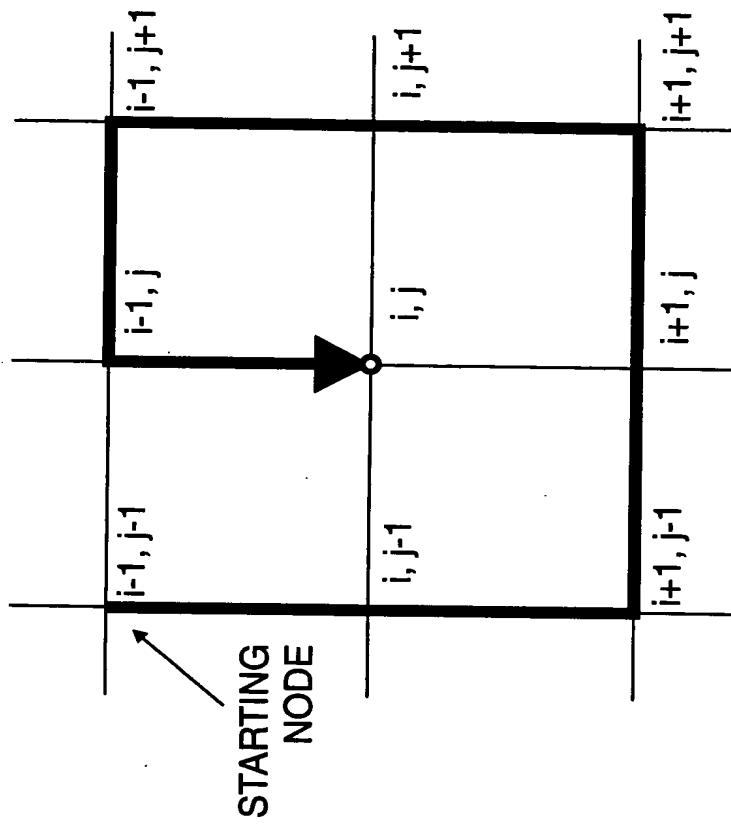
CONVOLUTION PATH FOR NODE  $i,j$ 

FIG. 19B

P0,0	P0,1	P0,2	P0,3	P0,4	P0,5	P0,6	P0,7
P1,0							
P2,0							
P3,0							
P4,0				P4,4 P4,5 P4,6 P4,7			
P5,0				P5,4 P5,5 P5,6 P5,7			
P6,0				P6,4 P6,5 P6,6 P6,7			
P7,0				P7,4 P7,5 P7,6 P7,7			

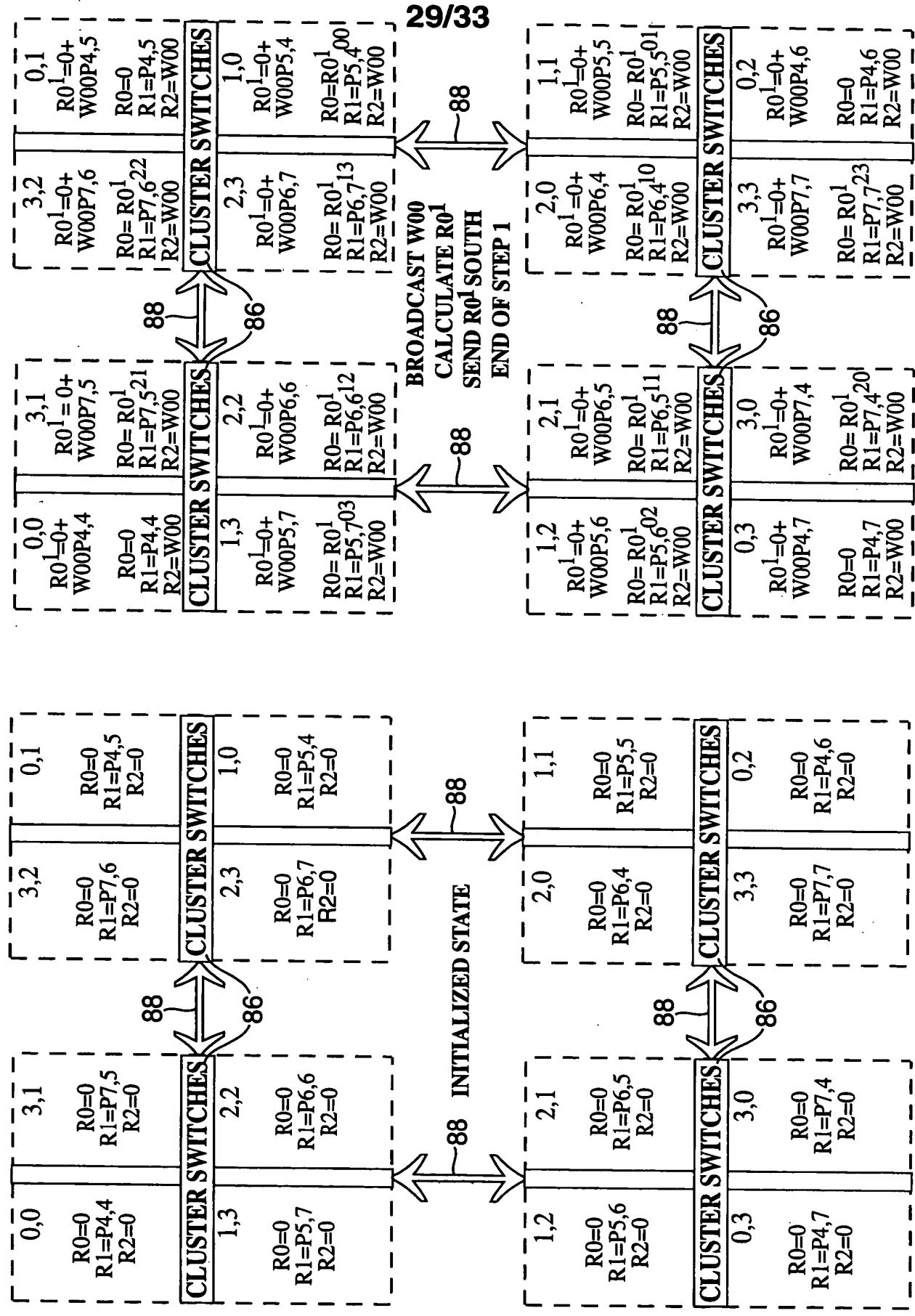
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0,0 P4,4	0,1 P4,5	0,2 P4,6	0,3 P4,7
1,0 P5,4	1,1 P5,5	1,2 P5,6	1,3 P5,7
2,0 P6,4	2,1 P6,5	2,2 P6,6	2,3 P6,7
3,0 P7,4	3,1 P7,5	3,2 P7,6	3,3 P7,7

FIG. 19D

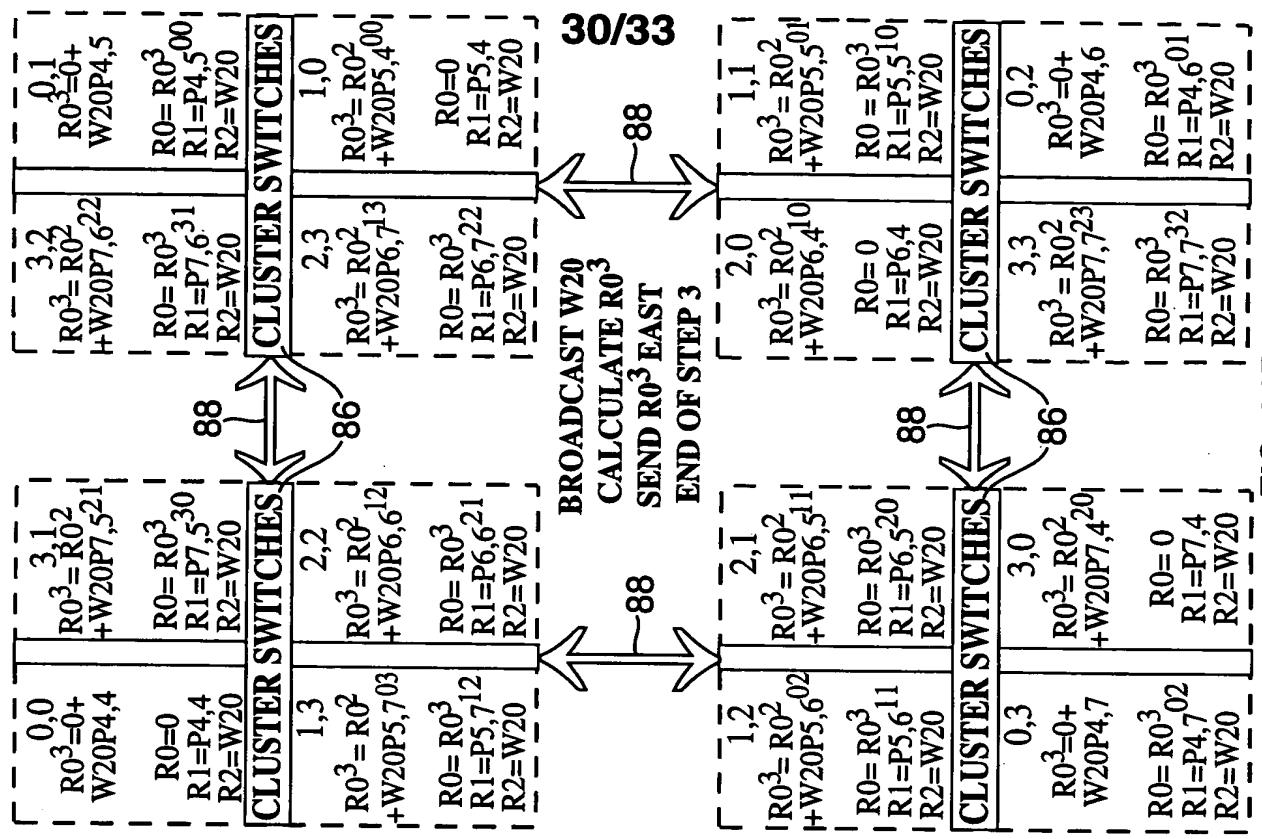
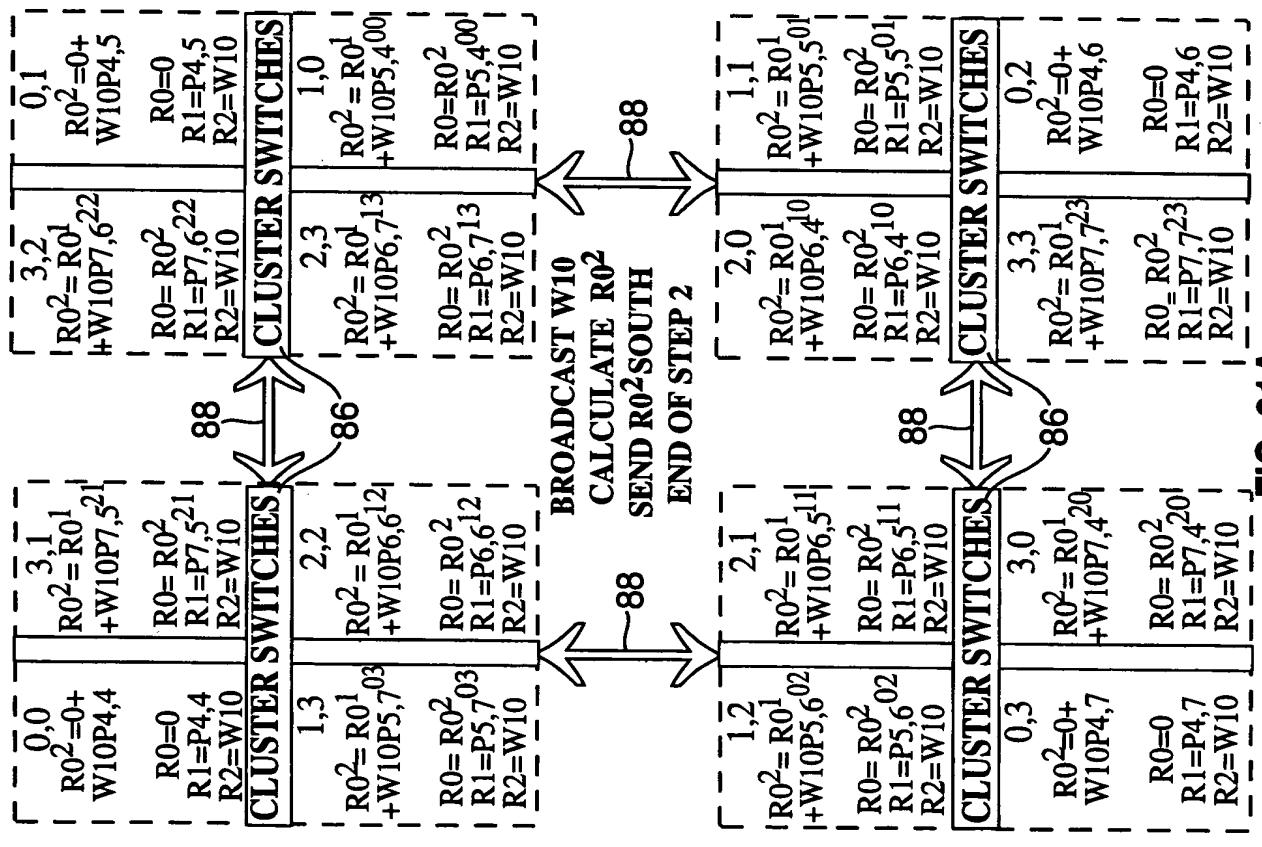
FIG. 19C

**FIG. 20B**



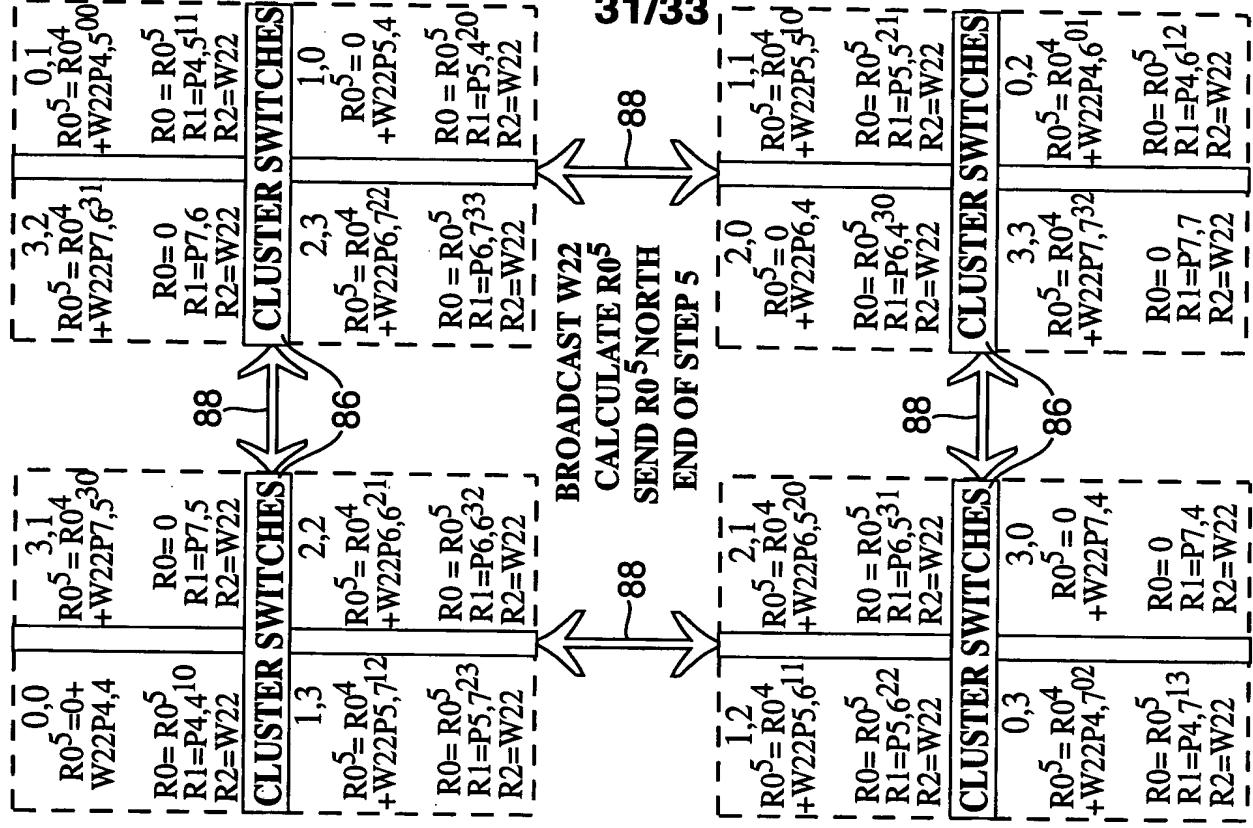
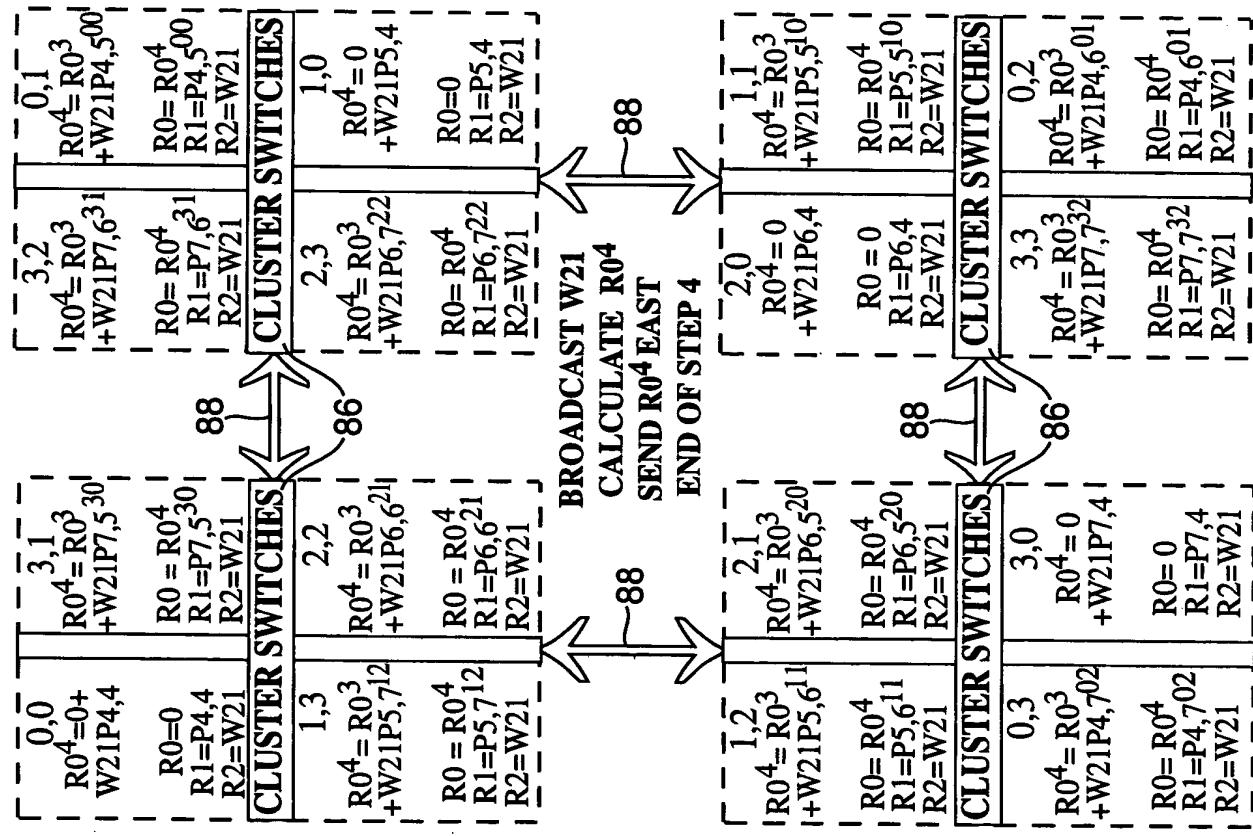
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**FIG. 20A**



**FIG. 21B**

**FIG. 21A**



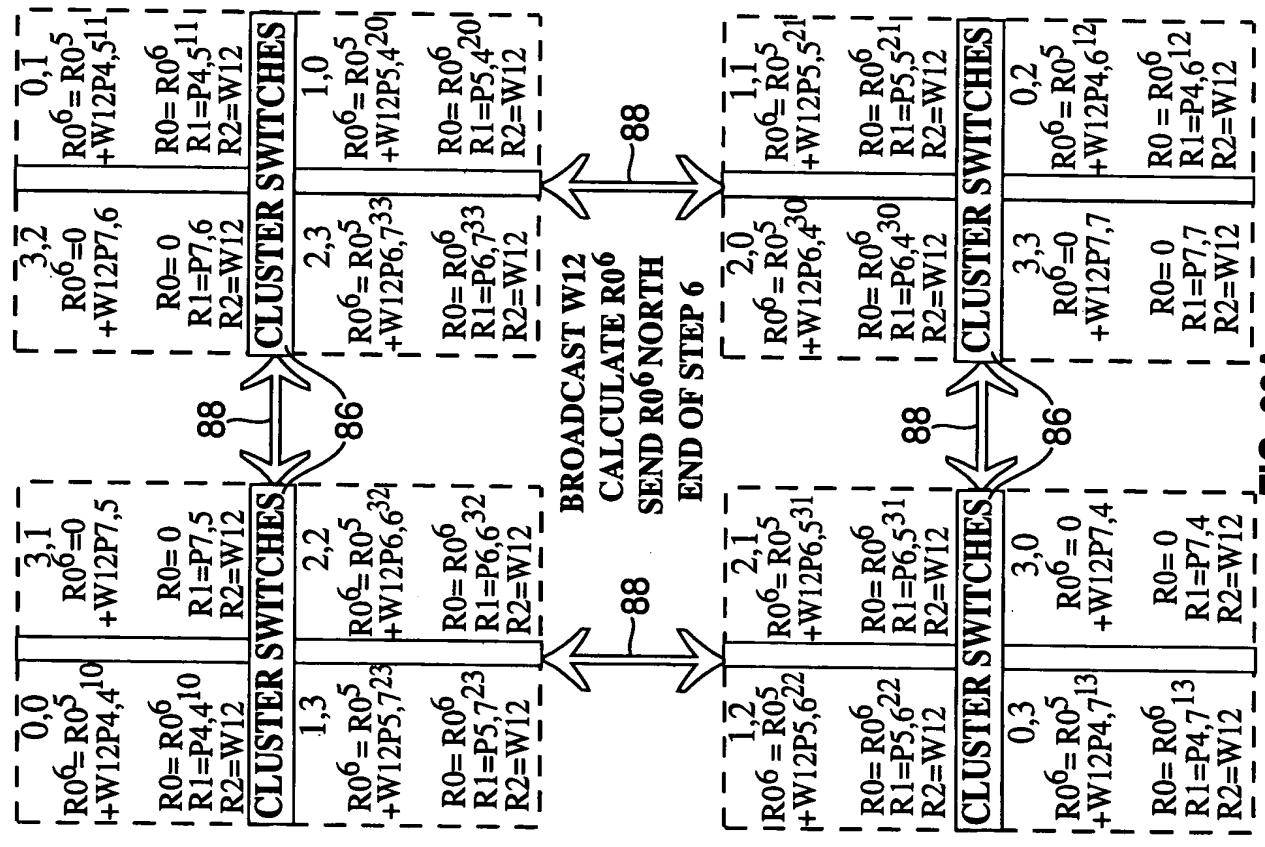


FIG. 23A

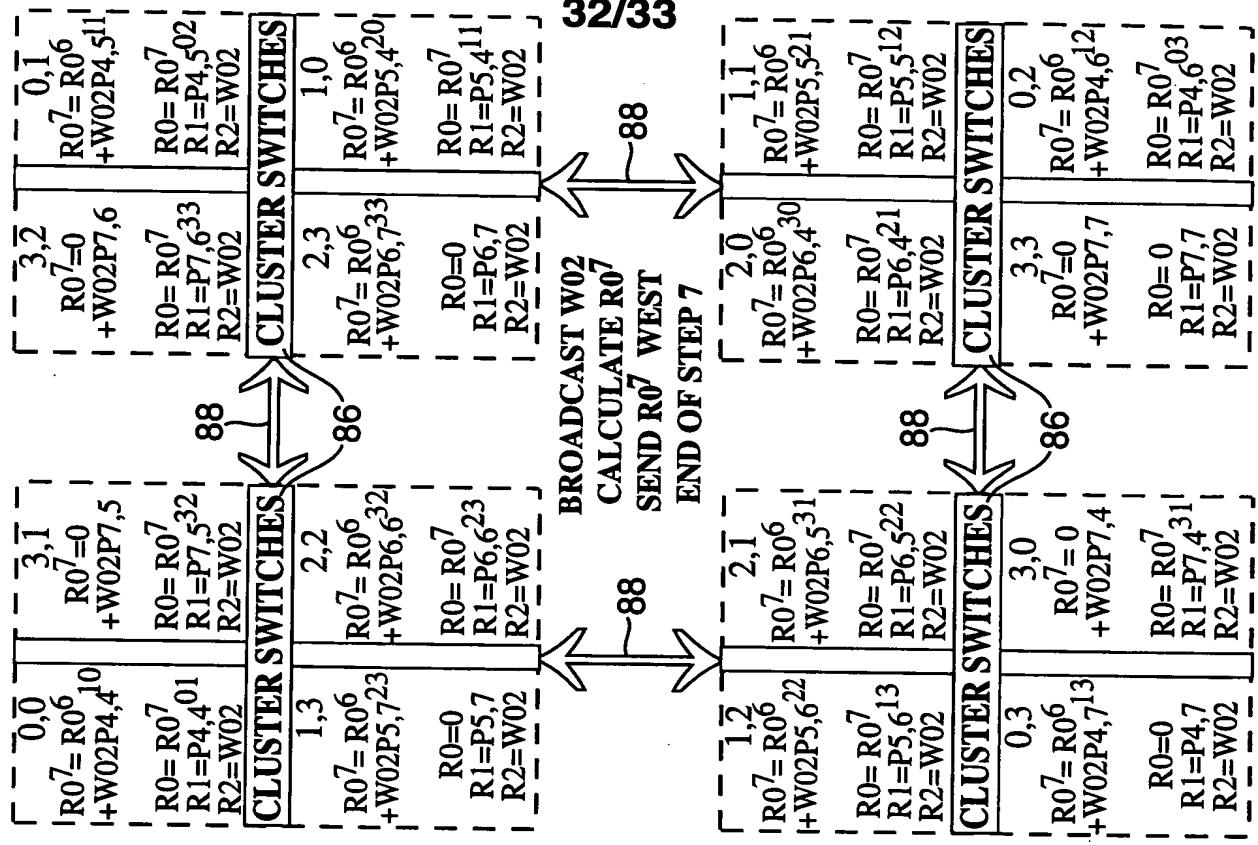


FIG. 23B

CLUSTER SWITCHES		
1,3	2,2	1,0
$R0^8 = R0^7 + W01P5,7$	$R0^8 = R0^7 + W01P6,6^2$	$R0^8 = R0^7 + W01P6,7$
$R0 = R0^8$ $R1 = P5,7$ $R2 = W01$	$R0 = R0^8$ $R1 = P6,6^2$ $R2 = W01$	$R0 = R0^8$ $R1 = P6,7^3$ $R2 = W01$
88	88	88

BROADCAST W01  
CALCULATE R0<sup>8</sup>  
SEND R0<sup>8</sup> SOUTH  
END OF STEP 8

CLUSTER SWITCHES		
0,0	0,1	0,1
$R0^8 = R0^7 + W01P7,5^2$	$R0^8 = R0^7 + W01P7,5^3$	$R0^8 = R0^7 + W01P7,5^2$
$R0 = R0^8$ $R1 = P7,5^2$ $R2 = W01$	$R0 = R0^8$ $R1 = P7,5^3$ $R2 = W11$	$R0 = R0^8$ $R1 = P7,5^3$ $R2 = W11$
88	88	88

BROADCAST W11  
CALCULATE R0<sup>9</sup>  
END OF STEP 9

CLUSTER SWITCHES		
0,0	0,1	0,1
$R0^9 = R0^8 + W11P4,4$	$R0^9 = R0^8 + W11P7,6^2$	$R0^9 = R0^8 + W11P4,5$
$R0 = R0^9$ $R1 = P4,4$ $R2 = W01$	$R0 = R0^9$ $R1 = P7,6^3$ $R2 = W11$	$R0 = R0^9$ $R1 = P4,5^0$ $R2 = W11$
88	88	88

CLUSTER SWITCHES		
0,0	0,1	0,1
$R0^9 = R0^8 + W11P5,7^3$	$R0^9 = R0^8 + W11P6,6^2$	$R0^9 = R0^8 + W11P5,4^0$
$R0 = R0^9$ $R1 = P4,5$ $R2 = W01$	$R0 = R0^9$ $R1 = P6,6^2$ $R2 = W11$	$R0 = R0^9$ $R1 = P5,4^0$ $R2 = W11$
88	88	88

CLUSTER SWITCHES		
0,0	0,1	0,1
$R0^9 = R0^8 + W11P6,7^3$	$R0^9 = R0^8 + W11P6,7^3$	$R0^9 = R0^8 + W11P5,4^0$
$R0 = R0^9$ $R1 = P6,7^2$ $R2 = W11$	$R0 = R0^9$ $R1 = P6,7^3$ $R2 = W11$	$R0 = R0^9$ $R1 = P6,7^3$ $R2 = W11$
88	88	88

CLUSTER SWITCHES		
0,0	0,1	0,1
$R0^9 = R0^8 + W11P6,7^3$	$R0^9 = R0^8 + W11P7,6^2$	$R0^9 = R0^8 + W11P4,6^0$
$R0 = R0^9$ $R1 = P4,7$ $R2 = W01$	$R0 = R0^9$ $R1 = P7,4^0$ $R2 = W01$	$R0 = R0^9$ $R1 = P7,7^3$ $R2 = W11$
88	88	88

FIG. 24A

FIG. 24B